

* UMASS/AMHERST *




312066 0333 3136 9



**UNIVERSITY OF MASSACHUSETTS
LIBRARY**

LIBRARY
UNIVERSITY
MASSACHUSETTS
AMHERST, MASS.

THE—

 AMERICAN 

—— FLORIST.

A WEEKLY JOURNAL FOR THE TRADE.

✠ ————— ✠
VOLUME VIII.
✠ ————— ✠

.. .. .
.. .. .

CHICAGO:
AMERICAN FLORIST COMPANY.
1893.

[illegible]

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII

CHICAGO AND NEW YORK, AUGUST 11, 1892.

With Supplement. No. 219

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

The Eighth Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

WASHINGTON, D. C.,

AUGUST 16, 17, 18 AND 19, 1892.

James Dean, Bay Ridge, N. Y., president; W. R. Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

CONTENTS

To Washington	1
Convention program	2
Pot roses for market purposes	2
Ten acres of roses (with illus)	3
A mignonette fungus (with illus)	4
Philadelphia	4
View at Toronto exhibition (illus)	5
Washington	5
New York	5
Boston	6
Toronto	6
Baltimore	6
Indianapolis	6
London, Ont.	6
Worcester, Mass.	6
The nursery trade	7
Trees and shrubs in bloom Aug. 5	7
Chicago	8
Our convention supplement	10
Advertising that pays	10
St. Louis	10
The seed trade	10
News notes	14
The florist's opportunity	18
The convention	21
A general introduction	21
Growing forcing bulbs in the south	28
Chairmen Washington committees	42
Washington hotels	44
Entertainment program	46
The trade exhibit	48
The bowling contest	50

WE HAVE RECEIVED FROM Mr. C. F. Hale a copy of the souvenir that will be presented by the National Gardeners' Club of Washington to each member present at the convention. It is a neatly bound book of about 150 pages, full of information about the city, and handsomely illustrated. This souvenir will undoubtedly be greatly appreciated and long retained as a reminder of a convention that promises to be the most enjoyable and valuable in the history of the society.

To Washington.

All the railroads represented in the Trunk Line Passenger Committee, Boston Lines Passenger Committee, Southern Passenger Association and Central Traffic Association have agreed upon a uniform excursion rate of one and one-third fare upon the "certificate plan," as in previous years. Delegates from points west of Chicago and St. Louis are advised to buy tickets only to those points, or some other point represented in the lines of the Central Passenger Association, from which they can then secure the advantages of the regular rebate. But from nearly all the large cities a special low rate has been secured, generally one fare for the round trip, and those from points near these cities had best join the parties starting from such cities and thereby secure the benefit of such special low rate. And in most cases where such special rate has been secured the tickets have a longer limit than that allowed holders of certificates.

FROM NEW YORK AND PHILADELPHIA.

The special train which has been arranged for by the combined committees of the New York and the Philadelphia Florists' Clubs from New York to Washington over the Pennsylvania R. R., will be the biggest thing of the kind on record. Satisfactory arrangements have been completed between Boston and New York, and the Boston delegation will join the New York party on Monday morning, August 15, at Jersey City, obtaining the same low rate of fare between New York and Washington as has been granted to the New York people.

The following is the running time of the special train: Leaving from foot of Cortlandt street, N. Y., at 10:20 a. m. Monday, August 15. Stopping at Newark, 10:49; at New Brunswick, 11:20; Trenton, 11:52. Arriving at Philadelphia at 12:40. Leaving Philadelphia at 2:40, and due in Washington about 6 p. m.

The fare for the round trip, New York to Washington and return, will be \$6.50. These tickets can not be procured at the R. R. station. Parties wishing to join in New York or New Jersey should write to J. N. May, Summit, N. J., enclosing \$6.50 for each person going and tickets will be forwarded immediately. That ample accommodations may be secured for all, parties are requested to give not less than three days notice of their intention to go. Tickets will be good on any train of the Pennsylvania R. R., and should anything prevent the holder of the ticket from going the money will be refunded upon presentation of the ticket to Mr. May immediately after the date given. Parties wishing to join at Philadelphia should arrange with Mr. John Westcott, 1518 Chestnut street, Phila., who has charge of this matter.

FROM BOSTON.

The New England delegation to Washington will leave Boston via the Fall River line at 7 p. m. Sunday, Aug. 14, joining the New York delegation at Jersey City, from which place a special train will convey the entire party via the Penna. R. R.

The price of tickets Boston to Washington and return will be \$11.84. These special tickets will not be on sale at any of the offices and can only be obtained from Wm. J. Stewart, 67 Bromfield street, Boston, who will also, on request, secure state room accommodations on the steamer Pilgrim for the above date.

FROM CHICAGO.

The Chicago Florist Club has secured a special low rate from Chicago to Washington over the Pennsylvania R. R., unquestionably the best route, and the train selected will take the party over the Allegheny mountains during the day time so there will be opportunity to fully enjoy the magnificent scenery. Florists in the west and northwest are cordially invited to join the Chicago party and share in the advantages secured.

The train will leave the Union depot at 3:15 p. m. Sunday, Aug. 14, arrive at Pittsburg at 8 a. m. Monday (the Pittsburg delegation will take same train) and reach Washington at 8:15 Monday evening. The Milwaukee delegation will be on same train, in a special car of their own, which will be coupled on to the Pennsylvania train at Chicago. The headquarters of the Chicago Florist Club, 34 Randolph street, will be open from 8 a. m. until train time on August 14, and club members and those who reach the city before train time are requested to meet there and proceed to the depot in a body.

Tickets at the special low rate can be secured only of the club committee and not at the R. R. office. Tickets may be obtained of the committee up to train time. G. L. Grant, 322 Dearborn street, is chairman of the committee.

FROM MILWAUKEE.

A special car has been arranged for from this city, leaving early the morning of Sunday, Aug. 14, and reaching Chicago in time to be coupled on to the Pennsylvania train leaving there at 3:15 p. m. same day, and that will carry the Chicago delegation. From Chicago on the party will have tickets at the special low rate obtained by the Chicagoans. Berths may be reserved and further information obtained by addressing C. B. Whitnall, 438 Milwaukee street.

FROM PITTSBURG.

The members of the Florist Club will leave for Washington on the day express at 8 a. m. on Monday, August 15, via

the Pennsylvania railroad, and arrive at 8:15 p. m. The company has promised to give the florists an elegant car for the trip. The rate has been placed very low, at one fare for the round trip, and reasonable limits have been assured for those desiring to extend their trip to other points. Any florist in our vicinity wishing to attend the convention is privileged to join our party at the same rate of fare. The fare will be \$8 for the round trip between the two cities, and tickets can only be procured from E. C. Reineman, 39 Fifth avenue, to whom application should be made for same not later than Saturday, August 13. These tickets can not be had at the railroad station and are for florists and their friends only.

ST. LOUIS, CINCINNATI, INDIANAPOLIS.

The St. Louis delegation will have a special car and will take the B. & O. train leaving early the morning of Sunday, Aug. 14, and arrive at Cincinnati at 5 p. m. same day. Here they will be joined by the Cincinnati florists and also by the Indianapolis delegation, and the party will leave Cincinnati at 7 p. m., arriving in Washington Tuesday morning. A very reasonable rate has been obtained by this route. For berths and further information address E. Schray, 4,101 Pennsylvania avenue, St. Louis; W. G. Bertermann, 37 Mass. avenue, Indianapolis; E. G. Gillett, 154 Walnut street, Cincinnati. The Washington headquarters of the Cincinnati delegation will be at the Randall.

Society of American Florists. CONVENTION PROGRAM.

TUESDAY, AUGUST 16, 1892.

Opening Session 10 a. m.—Address of welcome. Response. President's address. Reports—Secretary, Treasurer, Standing Committees, Special Committees. Miscellaneous business. Discussion of President's address.

Evening Session 7:30 o'clock:—

ESSAY.—Club root on roses and other plants; its cause and probable remedy. Prof. Byron D. Halsted, Agri. College, New Brunswick, N. J.

Discussion.

ESSAY.—Insect pests in the greenhouse; their cause. John Saul, Washington, D. C.

Discussion.

WEDNESDAY, AUGUST 17, 1892.

Morning Session 10 o'clock:—

Selection of place of meeting and nomination of officers for 1893. Reports of exhibition committee.

ESSAY.—The propagation of roses. Paul Pierson, Scarborough, N. Y.

Discussion.

ESSAY.—The European bulb market and the American buyer. John Reek, Bridgeport, Conn.

Discussion.

Selection of State Vice-Presidents for 1893.

Evening Session 8 o'clock:—

ESSAY.—Hybridization and the improvement of plants and flowers. Richard Bagg, Bridgeton, N. J.

Discussion.

The Question Box.

THURSDAY, AUGUST 18, 1892.

Morning Session 10 o'clock:—

Election of officers. Review of recent plants. Wm. Falconer, Glen Cove, N. Y.

ESSAY.—Flowers for holiday demands. Henry Young, St. Louis, Mo.

Discussion.

Evening Session 8 o'clock:—

ESSAY.—Floriculture for children as a means of increasing and diffusing a knowledge and love for flowers. Robt. Farquhar, Boston, Mass.

Discussion.

The Question Box.

Deferred business and final committee reports.

FRIDAY, AUGUST 19, 1892.

In the forenoon a trip to Mt. Vernon by invitation of the National Gardeners' Club. In the afternoon the bowling contest.

THE QUESTION BOX.

The following subjects for the question box have been already sent in, and together with those placed in the box during the sessions, will be assigned to gentlemen competent to reply to them, on the evenings of the second and third day.

SUBJECTS.

What are the best 12 varieties of carnations for commercial purposes?

What are the best 12 hybrid roses for bedding purposes?

What are the best 12 monthly or ever-blooming roses for amateurs?

What are the best 12 palms for florists' use?

What are the best 12 ferns for florists' use?

What are the best 12 orchids for florists' use?

What are the best 12 hardy herbaceous plants for cut flower purposes?

Has the steaming of tobacco been found effectual in the killing of greenfly with no evil results.

What are the best materials for shading on glass in summer and how applied?

How to make a hose?

What admission fee for chrysanthemum shows is likely to bring the best results in cities of from 100,000 to 200,000 population?

How can Florists' Clubs be best managed for the interest of their members?

What measures should the society take for the protection of its members from outside sharks?

THE TRADE EXHIBIT.

The accommodations for the society headquarters, the meetings and the trade exhibit are all under one roof, the location being the National Rifles Armory on G street, between 9th and 10th.

The space available for the exhibition is not large and already several large sections have been applied for and reserved. Intending exhibitors should lose no time in securing needed space. The rule of "first come first served" will be adhered to. Application should be made to C. F. Hale, 719 14th street, who is superintendent of this department. Applicants should state number of square feet required, the kind of goods to be exhibited and whether floor or wall space is preferred. A printed copy of the rules governing the exhibition will be mailed by Mr. Hale to those who request it.

DO YOU WANT an alphabetical list of expositions in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Pot Roses for Market Purposes.

[Read by F. Halman, Jr., before the Philadelphia Florists' Club August 2.]

In growing pot roses for market sales during the spring months we should endeavor to attain as closely as we can to the standard required by popular taste; it is not always possible to produce an ideal, such as an exacting public would like, for the majority of our varieties of roses lack some one or other of the requisites necessary to absolute perfection in human eyes; but with the material at our command, which is ample indeed, let us strive to gain plants with clean healthy foliage, well set with buds, and the reward will not be slow, for such stock is always in demand and eagerly sought for.

The propagation of the plants is our first consideration; that by cuttings seems to be the general mode at present. The cuttings are of two different kinds, hard wood cuttings and cuttings from green or growing wood, generally termed soft wooded cuttings; both are made during the fall months. Hard wood cuttings are taken after the plants in the field have shed their leaves, the cuttings are placed in a sand bed, or in boxes filled with sand, kept in a cold house all winter, and potted during the month of March. The advocates of this method are many, and particular virtues are claimed for the plants produced under this system not possessed by plants propagated from soft wooded cuttings.

Soft-wooded cuttings are grown from in-door wood. The parent plants are planted on greenhouse benches as soon as the spring sales are over, in similar manner to roses planted for flowering during the winter months; they must be kept in a growing and healthy condition all summer, and a sharp lookout kept that red spider does not infest the plants, or no cuttings will be the result. The cuttings are made during October, and will root readily, the young plants potted in 2-inch pots, and about the middle of January shifted into 3-inch pots; at this stage, nice salable plants of the ever blooming sorts can be grown for the following spring by shifting them on into 4 and 5-inch pots, a good plan for supplying a demand for cheap roses. During March the 3-inch plants are placed in cold frames and plunged into refuse hops or any similar material, and will be thoroughly rested and hardened off before planting into the open ground early in April, thus insuring strong, stocky and bushy plants ready to take hold of the soil at once and grow.

Many florists adhere exclusively to the uncertain method of hard wood cuttings, claiming that more vigorous plants can be secured; this is a fallacy. I am positive from repeated experiments that cuttings taken from green wood are fully as vigorous as it is possible to obtain plants, always provided that the parent plant was in perfect health at the time the cuttings were taken; the young plants will grow equally as good as those from hard wood cuttings, make better plants, for they are large, strong and hardened young stuff in 3-inch pots, well supplied with working roots, at a time when hard wood cuttings are barely ready to be potted into thumb-pots. It is true they will have cost more money, occupied valuable space, etc., but they are well worth the difference, the increased expenditure being too small to materially affect the final receipts.

The field into which it is intended to plant should have a liberal supply or manure, be deeply plowed and have the



VIEW IN THE FIELD OF ROSES AT ELLWANGER & BARRY'S NURSERIES.

soil well pulverized. During the summer months constant cultivation is absolutely necessary, and all flower buds should be picked off as soon as they appear, thus confining the whole energy of the plant to producing vigorous growth. A number of varieties, especially of the finer sorts, will not make salable plants in one summer; varieties of this kind should be planted together, for the purpose of growing them two seasons; they are allowed to remain out all winter, and in the spring following the canes are pruned down to two or three buds, given a top dressing of manure, and cultivated another summer, thus insuring extra fine plants, coupled with the fact of scarce and valuable varieties, which will more than repay the extra labor and time required in growing them; the additional cost of production amounting to about three or four cents per plant. This latter method will not apply to such tender ever blooming sorts as will not make sufficiently large plants in one season out of doors; it is necessary to grow them under glass. It will be found advantageous to plant them on greenhouse benches, thus securing a repeated crop all summer, in addition to large plants in the fall; the crop of flowers paying for the large expense of producing plants under such conditions; they can also be grown in pots, under glass, and will make good plants in 5-inch pots; the quantity that can be grown in a limited space paying for the extra labor required for them.

In the month of November the roses in the open ground are potted, employing good compost prepared during the previous summer for this purpose. Pruning must also be attended to; a vast difference of opinion exists in the performance of this particular operation. Tea roses can be pruned into symmetrical shape regardless of weak shoots, or even not pruned at all, their general habit being such as to produce shapely plants under most conditions. In the hybrid perpetual

class all weak canes should be entirely removed, the flowering canes alone being allowed to remain; these can be pruned down according to the whim of the grower, or, better speaking, of his customer; if the canes are shortened slightly the crop of flowers will appear in great profusion with short stems; unfortunately with the general public quantity of bloom seems to be preferable to quality of flowers in pot roses; shortening the canes to about two-thirds of their length, trimming to stant buds is the plan in vogue generally and is undoubtedly the best method.

The plants can be wintered in cold frames or cold houses; if wintered in frames or pits the pots should be plunged into some loose material, dry forest leaves being probably best; in this case a constant watch must be exercised to guard against the inroads of field mice, which are very destructive. To obtain a succession of blooming plants during the spring months the plants should be brought into a cool house, as required, from the middle of February to the middle of April. It is an important fact to start the plants into growth very slowly, insuring more certainty of a good crop of flowers.

The plants should be carefully syringed to keep down red spider, and the houses fumigated twice each week. Mildew is the most dreaded enemy of the grower; many really well grown plants are rendered unsalable by this unfortunate fungus. Mildew will appear after the plants have suffered some check, such as a chill caused by exposing them to a draught of air, especially on cool and cloudy days, and particularly if the houses are damp and wet. Alternating extremes of temperature are also apt to invite the attack, and allowing the plants to repeatedly become very dry at the roots is another fruitful source of mildew; this latter neglect alone will often ruin the plants of an entire house, aye even the plants of a whole establishment. To prevent mildew con-

siderable judgment must be exercised in ventilating, plenty of air should be given and the foliage hardened in the early stages of growth, for soft light green foliage will soon be adorned by a crop of mildew. Slight fire heat at night should be kept up until the first week in May, and later if the nights and days alternate with extremes of temperature. The heating pipes should be kept painted with sulphur, and flour of sulphur dusted over the foliage with a sulphur bellows, very lightly, to prevent the foliage from becoming soiled; if applied before the mildew appears it is very efficacious, as "an ounce of prevention," etc., is very applicable in the case of mildew. Syringing occasionally with a weak solution of Peruvian guano is also a good preventive. Manure water should also be given regularly to supply nutriment to the constantly washed out soil of pot roses. After starting the roses into growth they should stand with about two inches of space between the pots; the more space given the more bushy will the plants become, as the lower buds will break into foliage and also produce flowers; but the profit derived will be correspondingly less, for greenhouse space represents money during the spring months.

A limited number of specimen plants can be disposed of at fancy prices by every florist; such plants naturally require plenty of "elbow room." To obtain good results constant and hard work is necessary and close attention must be given to minor details; the consciousness of success is most gratifying for pot roses stand pre-eminent among all market bedding plants.

Ten Acres of Roses.

Ten acres of roses in bloom is a sight not often met with, but that is what may be seen at the nurseries of Messrs. Ellwanger & Barry, Rochester, N. Y., every June. In lieu of an opportunity to enjoy such a sight, we present herewith an en-

graving from a photograph of a part of the field. But the engraving, lacking color, gives a very faint idea of its beauty.

A Mignonette Fungus—Blanching.

The mignonette in many parts of the country is badly infested with a blight that causes the older leaves to become ashly white and worthless. This trouble is due to a fungus, *Cercospora rescidae* fl., that feeds upon the tender foliage at a rapid rate. The fine threads of the fungus run in all directions through the leaf and after a time come to the surface and then bear multitudes of long club-shaped spores. These spores, falling away, are carried by the wind or passing water to some favorable place upon a healthy leaf, and then they germinate and produce a new disease spot.

Many florists have had their mignonette beds entirely ruined by this fungous pest. If the work of the parasite is confined to the lowermost leaves the only damage done is the check that the sapping does to the plant, but when the upper leaves are attacked they become blotched and prevent the sale of the spikes of fragrant bloom.

It is possible to keep this enemy in hand by spraying the plants and in fact the whole bed several times when the seedlings are small. The substance to be used is the ammonia compound of copper, so effective as a fungicide with many similar fungous troubles. The carbonate of copper, three ounces, is added to a quart of ammonia. This will make enough for thirty gallons of water and will keep until used. When to be used shake the bottle, remove cork and dilute to proper strength with water. By having a strip of paper glued the length of the bottle the amount to be poured off for a full can be marked by horizontal lines upon the glued strip of paper. The mixture should be thrown as a fine spray upon the plants and bed. The spraying should be done at least once a week until the mignonette is in bloom.

The accompanying engraving illustrates the appearance of a large mignonette leaf that is partly destroyed by the *Cercospora* fungus. The fungus has not become evenly spread over the whole leaf and the spots are quite well defined.

The point of particular interest is the close imitation which this leaf has to one that is variegated. At first sight it might be mistaken for one that had no fungus in it, but instead was blanching in some parts, as is the case with many variegated leaves.

It has been shown in a previous paper that variegated plants are more subject to fungi than those with normal leaves. In the case in hand we have a leaf that has become variegated, so to speak, because a fungus has been preying upon it.

BYRON D. HALSTEAD.

Rutgers College, Aug. 2, 1892.

Philadelphia.

The August meeting of the Florists' Club was well attended. These summer days the members are on hand early and a pleasant half hour or more is spent about the pool tables and bowling alley; some of the boys are getting to be quite expert with the cue. The great majority of them never had a stick in their hands before the club-room was opened, and their playing is quite creditable.

The various committee reports on the trip to Washington and their discussion were the principal features of the meeting, together with an excellent paper by Mr.



MIGNONETTE FUNGUS.

F. Hahman, Jr., on "Pot Roses for Market Purposes"; this was well received and the thanks of the club given to the essayist. The paper was referred to the publication committee for publication. At the last meeting of the club the Cochran Hotel was voted headquarters, the committee, of which Mr. Ball is chairman, having recommended this house after a visit to Washington for the purpose of selection. A few days ago he was surprised to receive a letter from the proprietors, who said they would be unable to accommodate the Philadelphia delegation as they had determined to close their house during August to make repairs. After considerable trouble room was finally secured at the Ebbitt House, and this will be the headquarters of the club during the convention. Richard Heron, of the committee on decoration, reported that everything would look lovely on the morning of departure, and we have no doubt that the coaches will be bowers of beauty both within and without. The following gentlemen were elected to membership: D. T. Connor, Lansdowne; W. H. Taplin, Holmesburg; A. Bitner, Lancaster; Otto Horn, Sylvester Wunder, James Baynham and F. J. Michell, of Philadelphia. Mr. Battles stated that members of the S. A. F. who desired to pay their dues for this year could send the amount to him and he would give a receipt and badge. The badges this season have a yellow appearance; they may be gold but we have our doubts about it.

The great heat of last week increased the death rate considerably, especially among the poorer classes, and the "crape pullers" had a harvest. It is astonishing to see the energy displayed by this branch of the trade, for it has now become a recognized industry, a business which has a system. Every morning the papers are looked over, a route from the death column selected, and with a large book of photos under his arm the agent goes from house to house. Of course his work is the very finest, and prices, well, he gets all he can, but never refuses an order on account of price. The work sent out by these people has no attempt at arrangement, the frame is covered over so as to

hide the moss, and this is deemed sufficient. In many cases Cape flowers are used to help fill up. If the agent is met with, "We get all our flowers from ——" his answer is, "Yes, I know, he has engaged me to work for him, and thinking you would want some flowers sent me to get your order. Again, he claims to have known the deceased, used to go to school with him when a boy, etc., etc.; these are facts having come to our notice recently. If he fails to secure an order at the house he tries to find out where the deceased was employed, or if he belonged to a club or society; if so, here is another field, his fellow workmen or associates will most likely want to send an emblem of some kind to show sympathy, and the enterprising agent immediately proceeds to capture the prize. Many a nice order is turned out of the regular channel in this way.

White flowers have been very scarce lately; a great deal of funeral work has been made up and flowers that would not have sold at all at other times have been gobbled up at sight. Thos. Cartledge said that as long as he had been in the business he had never known flowers to be so scarce at this season. *Hydrangea paniculata* has made its appearance; it is a little green yet, but will be all right in a day or two, and then the trouble will be over, as it makes an excellent filling for work of this kind.

"Have you heard the latest?" "No, what is it?" "Pennock Bros. have dissolved partnership." "You don't say so; why, when did that happen?" "Wednesday last." "Well, that is news sure."

The above has been the topic of conversation heard on all sides the past few days. The firm has been such a fixture in Philadelphia that it seemed as if it would last forever, and very likely the firm name Pennock Bros. will. The business was originally started by Messrs. A. L. and J. L. Pennock about 1860. In a few years, J. L. Pennock's health failing him, he retired. The business was then continued by A. L. Pennock until February, 1870, when Thos. Cartledge and John Westcott were admitted to a half interest. Some years later Herbert Pennock (son of A. L.



VIEW AT THE RECENT EXHIBITION AT TORONTO.

Pennock), who held the position of book-keeper, was given half of his father's interest, thus making four partners with equal shares in the business. Messrs. Cartledge, Westcott and Herbert Pennock were the active members of the firm, Mr. A. L. attending to his greenhouses at Lansdowne, the product of which was used by the city store. For some time past the junior member of the firm has wished to draw out, and on stating his wishes to Mr. Westcott he concluded to accompany him. Mr. Pennock will go south and engage in growing small fruits, while Mr. Westcott will build himself a dwelling and live on his recently acquired place near Laurel Hill.

D. T. Connor, lately in charge of La-Roche & Stahl's greenhouses at Collindale, Delaware County, has gone into business for himself at Lansdowne. He is erecting four houses, 20x100, which he will heat by steam; his specialty will be roses, with one house devoted to carnations. K.

The team of ball tossers from Riverton paid a visit to West Philadelphia the afternoon of August 6 and crossed bats with the florists of the city, on the Craig grounds at Forty-ninth and Market streets. The game was for seven innings and resulted in a decided victory for the Florists. Score, 15 to 7. After the game they all had a very enjoyable time in one of the large packing sheds of Mr. Craig, where they partook of refresh-

ments and indulged in singing, dancing, boxing, etc., until they were tired out.

J. WALKER.

Washington.

The weather has been more pleasant during the week, greatly to the relief of all, particularly to the florists, who depend mainly upon the rain for their water supply. We have had several refreshing showers which had a cooling effect upon the heated earth. The thermometer dropped 15° in one afternoon.

Mr. C. A. Small, of the firm of Messrs. Small & Sons, lost his infant son last Tuesday. He has the sympathy of his many friends among the florists of Washington in his sad bereavement. This was his only child.

The Baltimore Florist club have written Chairman Smith of the Reception Committee to procure a permit from the chief of police of Washington, allowing them to parade our streets, Aug. 16th, with a band of music. They propose bringing a band of 40 pieces, and are going to wake the city up with "My Maryland" and other familiar airs.

Convention matters are progressing very satisfactorily. If "Uncle Jerry" will only regulate the weather for us during convention week, I haven't the slightest doubt but what we will have a glorious time. Let everybody in the florist business come and take part.

Mr. Wm. J. Stewart, of Boston, ar-

rived in the city Sunday evening last and departed Monday afternoon. He came on convention business.

Crape myrtle, *Hydrangea paniculata grandiflora* and *althea* are about the only shrubbery in flower in our parks at present. The hydrangea, with its large heads of white flowers looks most beautiful at present. They are planted in groups in some of the parks, producing a much finer effect than where planted singly. In Iowa Circle there is a group of large plants, some six or eight in number, on which I counted 352 heads of bloom last week. If more of this handsome shrub was planted in our parks it would add much to their attractiveness as it flowers when bloom is scarce.

C. LESLIE REYNOLDS.

New York.

Roses are in a little better demand but trade in general is dreadfully dull. The roses coming in at present are mostly the little weak products of young plants and the quantity is not large—out-door flowers constitute the main crop sent in. Gladioluses, sweet peas, asters, etc., being over-abundant. The final arrangements for the representative bowling delegation to Washington were completed at the meeting of the Bowling Club on Monday afternoon.

The Florists Club held its regular monthly meeting on Monday evening. Samuel Henshaw, of West Brighton, read

an interesting paper on "The Reminiscences of an old gardener."

Mr. W. A. Manda has returned from Europe much refreshed. J. A. Penman has also got back. L. Posterman is out west prospecting for orchid trade.

The wonderful checker-playing automaton, Ajeeb, at the Eden Musce, has at last met his match in the person of Mr. John Weir, the Brooklyn florist, who is also an expert, the result of the game being a draw.

Boston.

There is a decided scarcity of roses and carnations. Either will go at sight if of passable quality. Asters are not overcrowding the market any as yet, the white ones being at present a great boon for those who have to make up funeral designs. Pink pond lilies have recovered their ground fully and sell quickly. Lily of the valley seems to have lost its summer popularity. No demand for it whatever. Sweet peas have slackened up, the frequent heavy rains and cool weather having contributed largely to this result. They were at their height last week, and the exhibition on Saturday at Horticultural Hall was especially fine in the sweet pea department.

The August meeting of the Gardeners' and Florists' Club was very slimly attended. No business of importance except report of excursion committee and some amendments to the by-laws. The members of the S. A. F. will turn out very generally from this section. Sunday, August 14, is the starting time.

Chas. Evans and Wm. Edgar have returned from England after a very short visit. They are more than ever convinced that their adopted home is the best place on earth.

Ex-President J. M. Jordan, of St. Louis, and possible future President H. A. Bunyard, of Short Hills, have been sojourning for a few days in the modern Athens.

Toronto.

The establishment of Messrs. Manton Bros. was the one selected by the writer for a visit this week. They run a store on one of the main streets in town, just now filled with palms, *Draena indivisa*, and the like, for decorating purposes, and flowers to supply the small summer demand; but the greenhouses are situated in Eglinton, about four miles north, outside the city.

The ground on which they stand is a gentle slope to the southeast, very sandy, but there is a permanent spring that runs into tanks in the top house, overflowing through pipes into similar tanks in the houses lower down, giving an abundant supply of water at no cost and keeping the soil a short distance from the surface always moist. A bed of callus in the center of one of the houses, which is never watered, were growing as strong and close as bullrushes and give a constant supply of bulbs big and little. A large importation of palms of all the leading sorts looked very fine and healthy, also big batches of *Draena indivisa* and *Cyperus alternifolius*. Some cyclamens in 5-inch pots, grown from Laing's best seed sown last October, were doing fine and should go off like hot cakes at a paying figure when they begin to flower.

A specialty is made of small ferns, which Tom says is the best selling stock he raises; they sell wholesale on the market and at the store all the year round, and the supply is never equal to the demand.

All the chrysanthemums, of which there is a large stock, are being grown inside this year on side benches and permanent beds. Many of them are only just planted and will be grown single stem single flower.

Tom dabbles in orchids to a considerable extent, but says there is not much money in them, if any, yet; comparatively few people can rise to the price.

A permanent bed of roses in one of the houses, for summer blooming, was a sight worth seeing. Such growth! And the bed is never watered. Marechal Niel is found to be very useful grown this way.

Outside herbaceous stuff is gone into pretty largely, the demand for it increasing every year. The Manton Bros. have lots of energy and are keeping up with the times, and Tom, whose genial, rubicund countenance will be remembered by many who had to do with the trade exhibit at the convention last year, is, take him all round, the best liked man in the profession in the city. The firm are large exhibitors at all the shows.

The weather is fine and comparatively cool now. The boys are beginning to talk picnic, and it is probable that those who are unable to take in the grand picnic at Washington will organize one to come off about the end of the month.

E.

Baltimore.

If business can be any duller than it has been this week most of the trade seem to doubt it, though the weather has not been so intensely hot as last week. Funeral work continues the only stand-by and flowers suitable for it the only ones in steady, though light, demand. Asters are making their appearance in fair quantity, fine white ones bringing \$1 per 100. Other stuff continues about the same as last week.

The "boys" expect to storm Washington on the 16th with all their membership and a brass band. No doubt the cars will be full both going and coming.

Mr. Geo. Wm. Klein has opened the store 947 Madison avenue with a very complete stock of immortelles and florists' supplies, including metal and moss designs, foil, chemille, etc., etc. As this is stock that will be a convenience to all the trade in town Mr. Klein should succeed.

Mr. Jno. Halliday is taking a vacation at Atlantic City.

As the convention will be held so near us, next door, or in a neighboring village, so to say, we trust our fellow craftsmen will remember the fact and give us a chance to prove that our boasted hospitality is fact and not fiction by coming over and pulling the latch-string, which is always hanging out.

MACK.

Indianapolis.

The first annual picnic of the Indianapolis Florists' Club was held July 24. A very enjoyable time was had despite the hottest day of the season.

Trade is very dull.

The regular meeting for August was held on the 4th. It was decided to hold a spring exhibition some time before Easter. The usual talk was had on the park question; some good will come of it soon; it will be taken up by prominent citizens with our assistance. A communication from the State Board of Agriculture in regard to the floral display at the state fair was received. It was referred to those directly interested. At a former meeting, after several attempts by this club to assist the State Board in arrang-

ing the new fair grounds, especially the horticultural building, the committee was received rather coldly and it was decided to not again try to come nearer to them.

Some 20 to 30 florists will attend the convention from this state.

Wm. G. Berterman reported that good progress was being made at the World's Fair by Mr. Thorpe and that all who could should contribute any specimen plants they can spare.

W. B.

London, Ont.

Notwithstanding the very unfavorable season business has been about equal to former years.

The Gardeners' and Florists' Society will try another Chrysanthemum Show, although the two previous ones were financial failures. A premium list has been issued and can be had on application to Wm. Gammage, Secretary.

A thousand chrysanthemum plants were distributed to school children the first week in June, for which prizes will be offered at the coming show.

The Western Fair will be held in September. Several hundred dollars are offered in premium for plants and cut flowers. Their premium list has been issued and can be had on application to Thos. A. Browne, secretary.

F. Dicks, who has managed Mr. E. Meredith's greenhouses for several years, has purchased some land, and will erect some houses and go it alone from henceforth. John Pegler will assume control of the place vacated by Mr. Dicks.

J. B. Cairncross has bought a farm of 175 acres near Owen Sound and will shortly withdraw from the firm of G. & J. B. Cairncross.

J. Gammage & Sons have completed one house 18x100 for roses, also a shed 17x67. They will also add one house 18x100 for carnations and a 6x100 propagating house, "north side," and remodel and rebuild three other houses, the whole to be heated by steam.

W. G.

Worcester, Mass.

It has rained; for two whole days the rain has come down in solid sheets to be greedily soaked up by the parched earth and withered foliage.

From July 24 we have had the hottest and driest spell that we have experienced for many years. The closely cropped lawns were burnt up, bedding stuff (unless it was watered morning and night) drooped and withered, and even the leaves on trees thirty and forty feet high curled up and turned brown.

During the last two weeks there was a little funeral work, but otherwise trade is dead as the proverbial door-nail. Palms, ferns and foliage plants, with six or seven vases of cut flowers, is the usual decoration to be seen in the store windows, and the clerks look as though an eight dollar order would knock them flat.

Baskets, bouquets, sweet peas, cut flowers, hollyhocks, petunias and Phlox Drummondii was the schedule call for the exhibition July 21, and a large display was the rule in all the classes. Of hollyhocks some very fine blooms were shown. Mrs. F. H. Merrifield was first with a splendid stand of fifteen varieties. For stand outflowers there was a large number of entries and some exceptionally good stuff was shown. H. F. A. Lange took first premium. Round basket from amateurs: Most of the baskets had the same old fault of being packed in too close, and the flowers all on the same level. Mrs. C. E. Brooks first. Round

basket from florists: Fair. H. F. A. Lange first. Sweet peas: Very large number of very good exhibits. H. A. Jones, who was first, showed twenty-three varieties, with foliage, that were hard to beat. Petunias: H. A. Jones also took first for best stand of petunias with a nice display of single, semi-double and very double flowers. Phlox Drummondii: But two stands of phlox were shown, but they were exceedingly good. Mrs. F. H. Merfield's was a shade the better and was awarded first. Stand of outflowers from '92 seedlings: These stands were not as good as they might have been, considering the large field to select from. F. A. Blake, first.

August 4 another exhibition was held.
SEEDLING.

@Re Nursery @rade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; S. K. JEWETT, sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Trees and Shrubs in Bloom Aug. 5.

We cannot now expect to find many kinds of trees or shrubs in bloom, ripening fruit being more in the order of things than blossoms. But if we are short in variety, some of our shrubs, hydrangeas and altheas for instance, make up for it in display and quantity. And we have quite a lot of roses again. Teas and China roses propagated last winter and planted out in spring, have a good many flowers. Bourbons are perpetual bloomers, and, though not very full roses, they are exceedingly welcome at this time of year. Madame Georges Brunt, the hybrid rugosa, is at it again in full earnest, still, at this time of year we prefer to let them ornament the bushes than fill the baskets, because they are so thorny. And the double-flowered Rosa microphylla continues to yield its solid blossoms. The great variety of other plants now in bloom out of doors, in a large measure make amends for the paucity of flowers among trees and shrubs. We have gladioluses, lilies, dahlias, phloxes, fleecy clematises, heliotrope, cannas, mignonette, early China asters, coreopsis, salvias, hibiscuses, the sunflower family in hosts, and many other useful flowers, and are really pretty well off for bloom. Some of your folks might call it rough stuff I dare say, but rough as it is it is mighty handy to have when a demand comes on you.

RHUS SEMIALATA OSBECKII is a Japanese small tree now in full bloom. It is the showiest, so far as flowers are concerned, of our cultivated sumachs. The flowers are dingy white and borne in immense, many-branched terminal panicles; they last in showy form for two or three weeks and are a happy bonanza for honey bees. It isn't a shrubby plant like our stag-horn sumach, but quite a tree. There is a general belief that it does not sucker, but this is erroneous. A deal of weight is given to the yellow or scarlet tint of its foliage in fall, but I find it best not to build too much on this point for it doesn't always hold good. Our late-summer blooming American sumachs, do not warrant mention on account of their flowers, which are green or greenish and not at all showy.

SOPHORA JAPONICA, a round-headed, intensely green tree, from China and Japan is now laden with large, loosely-branched terminal panicles of yellowish-white pea

flowers. Its weeping form is common in gardens, but the type is seldom planted, more's the pity; it is obliterated in estimation by the weeper. Another point against it that it does not bloom in early life, it requires age. There is a fine mature specimen of it in the Boston Public Garden.

DIOMORPHANTHUS MANDSCHURICUS, or more properly Aralia Chinensis var., will be a fine sight in a few days. Its enormous compound panicles of little umbels of white flowers, although terminal, are mixed up among the immense, much-divided leaves, giving the whole a pretty effect. Although exceedingly showy plants at this time of year they sucker considerably and need watching. I had some of them trained as one-stemmed trees, and they were handsome, but so far north as New York this treatment is too arduous, and they died out; three or four sprouts is the best way for us to handle them.

TECOMA RADICANS, the trumpet creeper is very fine, and has been so for a fortnight. A rank, weedy vine in alluvial lands in the South, but one of our indispensable garden vines.

TECOMA GRANDIFLORA, from China and Japan, is also fine in bloom just now. Where it thrives well—from New York southward—it is as rank a grower as T. radicans, and what a splendid, showy flower it is! It has immense, loose, terminal panicles of large, wide-open, reddish-scarlet flowers. You will find it in fine form just now in the gardens about Washington.

BIGNONIA CAPREOLATA, a woody vine, abundant in the northern states, but not very hardy from New York northwards, is also in bloom. It has bunches of orange-colored flowers. Look out for it in the woods around Arlington and Mt. Vernon when you go to Washington, it is plentiful there but going out of bloom.

XYNEDRUM ARBOREUM, the sorrel tree or lily-of-the-valley tree, as it is also called, is in good bloom. It has panicles of one-sided racemes of small white flowers that last a long time in beauty. The foliage of the trees assumes an intense crimson hue in fall. Sometimes this small tree thrives very well if it gets a moist, sheltered place to grow in, and, again, it is very retractor in its behavior.

CLETHRAS.—C. alnifolia abounds in the wet, swampy lands about here and most everywhere else in the east, and it thrives just as well in the garden. C. acuminata comes from the forests of the Southern states and is also hardy in our gardens. Both are now in bloom and very showy because of their great quantity of flowers. Alnifolia, notwithstanding its commonness, is the whitest, most fragrant and decorative. Clethra alnifolia var. tomentosa, a native of the southern swamps, but exceedingly rare, blooms later than the type. We have not got it but I saw it at the Arnold Arboretum, and was informed it was hardy there. C. barbinervis, from Japan, came into bloom earlier than our natives and isn't quite past yet. It is a beautiful species. Not extra hardy though, but so far it has withstood our winters here with impunity. Mrs. Berger, of San Francisco, from whom we bought it says, "A fine blooming shrub or dwarf tree, attains a height of 8 to 10 feet, covered in early summer with masses of white bloom, in small spikes of delightful fragrance."

TAMARIX CHINENSIS is now in fine bloom in open, sunny parts, but barely open in sheltered spots. It has glaucous

green, fleecy wands of foliage, and a lovely and ample spray of pink flowers. It will stay in bloom all through the month. As this is one of the most beautiful and hardy shrubs florists should get it and plant it about their homes. Prune it as hard back in winter as you would an althea, but bear in mind not to treat the spring blooming species in this way else you'll get no flowers from it.

ALTHEAS (Hibiscus Syriacus) in variety are in good bloom. The single varieties that came up spontaneously and have not been pruned have been in bloom for some time, but the hard pruned plants and full double varieties are only in good bloom now, many of them not at their best yet. There are some very fine doubles. In the single totus albus we have a flower as white as snow throughout; celeste is our best blue, and it really is fairly blue; at the same time it isn't a pretty shade. Among altheas we also have a host of purple trash that we could get along without very well.

HYDRANGEA PANCULATA GRANDIFLORA isn't in bloom yet, but the July or early-blooming "single" form is past, and another form of the same is at its best; then will come the grandiflora variety, and later still we have another "single" form that comes into bloom. Although all of these "singles" are almost indistinguishable in general appearance, they are markedly different in their time of blooming.

VITEX AGNUS-CASTUS, the chaste tree, is very beautiful with us now. It is a native of Southern Europe, but hardy with us in sheltered ground. The little cymes of small lavender-blue flowers are arranged in whorls on long spikes in stiff panicles. The whole shrub is strong scented. It likes good ground. Quite a common associate of the crape myrtle in southern gardens and should be more used in our middle states.

THE SHRUBBY HYPERICUMS keep in bloom still and now show their objectionable feature—their discolored seed vessels—very plainly.

AMONG HARDY HEATHS the several forms of Calluna vulgaris are very fine. Erica tetralix and E. vagans and their varieties are also in fairly good bloom yet.

INDIGOFERA DOSUA is very persistent, growing and blooming all the time, and better-looking to-day than it was five weeks ago.

IF RUBUS ODORATUS wasn't one of the commonest plants we have in ravines in rich woods we'd think a good deal of it as a garden plant; anyway its showy purple flowers under the trees are quite pleasing.

THE EARLY FLOWERING Koeleruteria paniculata is covered with large panicles of inflated seed vessels, but there are still many panicles of yellow blossoms, as good as ever, on the late form.

GORDONIA LASIANTHUS, the Lobloby Bay of the South, has commenced to bloom. Its flowers are large, single, white, and remind one of single camellias. The plant is evergreen. It isn't quite hardy with us. I lift it in fall and heel it into a cool pit over winter, transferring it to the open ground again late in April, and it seems to thrive and bloom well every year with this treatment. The Franklinia (G. pubescens, or, as we now call it, G. setamaha) used to live out of doors with us and also bloom nicely in fall, but this summer both the ones we had out of doors and the specimens we pitted over winter with safety all died

after putting forth their leaves. We'll try them again though.

LEYCESTERIA FORMOSA is a soft shrubby plant from India, barely hardy here, but hardy from Philadelphia south I am informed. We pot it in winter and plant it out in summer and it grows vigorously, but never rank, and is now in bloom. Its flowers are white set into fascicles of more showy chocolate-purple bracts. You will find lots of it about Washington.

OLEARIA HAASII, a little evergreen shrub from New Zealand is in full bloom with us, but we treat it as we do Loblobly bay and others not quite hardy. It is covered with corymbose cymes of little white flowers. It should be perfectly hardy about Washington. And there also you will find the abelias planted out in the shrubberies as we do spiraeas in the north, and in bloom now.

Long Island. Wm. FALCONER.

Chicago.

Weather uncomfortably warm. Trade shows signs of life only at long intervals.

McKellar & Sperry have opened a cut flower commission house at 128 and 129 Michigan avenue. Mr. McKellar was formerly with E. H. Hunt.

The Ways and Means Committee of the World's Fair has issued an invitation for proposals for the "Flower and Plant Concession." Specifications may be had on application to S. A. Crawford, Secretary Ways and Means Committee World's Fair, Chicago, to whom proposals should also be addressed. Proposals will be received until noon of August 25.

Among recent visitors to the city were R. L. Temple, Calla, O., Ed Jansen, New York; E. V. Hallowell, Queens, N. Y.; I. Forstermann, Newtown, N. Y.; R. W. Carman, Flushing, N. Y.

Buffalo.

The Buffalo Florist Club has engaged a special car via the Northern Central R. R., leaving Monday night for Washington. The club extends a cordial invitation to any florists at points on the route to join the party. Berths in the sleeper will be \$2 or less. Wm. SCOTT.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED By florist (English) in S. private or commercial place; undertake handling of greenhouse stock thoroughly. A1 references. Address FLORAL, care American Florist.

SITUATION WANTED By married man of 30 years experience, steady, thoroughly up in plant and bulb culture, and floral work under a specialty of. Address B, care American Florist.

SITUATION WANTED—As foreman or manager. S. thoroughly posted in the growing of roses, carnations, decorative and bedding plants, forcing of bulbs; good references; state wages. N, 121 N. Clark St., Chicago.

WANTED—A wood rose grower; must have references. ROSES, care American Florist.

WANTED—Hoses for bench p. nting. Send samples and price. Address INAC SPACHT, Jerseyville, Ill.

WANTED—Hot water or steam heated for small house; must be in good condition; self feeder preferred. C. E. NEWMAN, Glendora, Cal.

WANTED—An industrious young florist to grow and cut downy and bedding plants; must be good at making up; must have references. J. W. DAYHOPE, Hagerstown, Md.

WANTED One second handed boiler (Coulter preferred) in good condition, to heat about 800 feet 4-inch pipe. Address stating price. B. Box 383, Riverside, Cook Co., Ill.

WANTED—To rent a florist place in New York or vicinity with at least 5 or 6 greenhouses. Furnaces and water pipes must be in good order. State price. W. ECKLES, care L. B. Hopley Esq., Hempstead, Long Island, N. Y.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references—others need not apply. Address A. ROCHTE & STAHL, 127 Chestnut St., Philadelphia, Pa.

WANTED—(In some western city) a situation with opportunity for progress, by a young man of energy and aspiration, who has had two years' English discipline in the business. Address ARTHUR H. BOON, St. Joseph, Mo.

WANTED—Roses grower and quick man of skill and energy. Special conditions make this rare opportunity for one or more men of approved ability. Roses ferns, orchids, palm, bulbs, cut flowers, etc. Addr. in stating terms and experience. T. WILLIAMSON, Memphis, Tenn.

WANTED—Thoroughly experienced and steady man to take charge of a large commercial plant of 25,000 feet of glass; must understand the growing of roses, carnations, chrysanthemums, etc.; must also understand the growing of mushrooms for market; Englishman preferred. Address with references. ALTING was expected. MRS. M. H. ROCKAFELLOW, Maywood, Ill.

WANTED—A reliable and competent man to take charge of a range of new commercial greenhouse and familiar with the forcing of h. b. 3. I require the best of recommendations. This will be a good and permanent position in a close place. C. a competent man. I will be in Washington, D. C., during the Florist's Convention, address me care J. C. Vaughan, National Rifle's Armory. At Philadelphia August 1, address care H. A. Dreer. At Chicago August 27-28, care J. C. Vaughan. If there is any one in the vicinity of these places contemplating a change I would like to meet you. In answering address me at any of the above places, please be particular, references and space wanted, and send a duplicate to my address at Sioux City, Iowa. J. C. KENNISON, Sioux City, Iowa.

FOR SALE—No. 3 Hitchings saddle boiler in first class condition. Address KNIGHTS & CO., Mt. Sterling, Ky.

FOR SALE OR RENT—Greenhouses and stock, in growing town with collector no opposition; terms easy. Address S. S. care American Florist.

FOR SALE—One No. 6 Weathered hot water boiler, price \$100; also 2,500 feet 4-inch pipe at half price. Address MRS. GEO. WALDRATE, Salsbury, Mich.

FOR SALE—In a fast growing town in Connecticut two houses well stocked. Good chance for some one with small capital. Address J, care American Florist.

FOR SALE CHEAP—Hitchings boiler No. 16 and 1000 feet 4-inch pipe. Only been in use months; good as new. Address B. REBEL, 141 Dock St., Philadelphia, Pa.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property situated 25 miles from New York City. Stock and houses in A1 condition. Houses all planted; mostly American Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care Am. Florist.

FOR RENT—10th house on St. Ives Park farm corner Grand avenue and 12th St. Philadelphia. One-fourth mile north of Galewood on St. Paul railroad, will be rented with or without plants for cash rent or on shares. Apply to Edgar Holmes, 88 Washington St., Room 59, Chicago.

FOR SALE—A No. 1 Pratt's steam trap and receiver; will drain 5,000 feet of 1-inch pipe where boiler is high. Used six years in 128 ft. boiler about the work the trap does ask Florist Hudgins, Bowmanville, Ill. See his article in the Florist last year. Also 4,000 feet of 4-inch pipe at 8 cents a foot. EVANSTON avenue, Chicago, Ill.

FOR SALE CHEAP—3 greenhouses 50x12, built in 1880, in town, with ash, ferns, ranunculus, tulips, pots, winter stock of carnations, bouvardias, violas, chrysanthemums, etc. Heated with Meyer's hot water boiler, good local trade in town of 10,000 near depot, 6 1/2 miles from Phila.; established stand in 12th street market, Palika; a bargain, \$10.00, half left on mortgage. Address FLORIST, 12th Street Market, Philadelphia.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam; grassy 80 feet long just coming into bearing; ready built; 30 acres of land; abundance of fruit; large house containing 15 rooms, new barn; 7 1/2 miles of Philadelphia. Address FLORIST, from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARKIN, Toughkenamon, Chester Co., Pa.

WANTED
6 Large Double Pink Oleanders.
1 Large Double White Oleanders.
5 Large White Abutilons.
5 Large Yellow Abutilons.
5 Large scarlet or Clouston Abutilons.
State size and price.
SALZER SEED CO., La Crosse, Wis.

For Sale or to Let.

Florist establishment, six miles from Boston, consisting of 4 greenhouses and Violet pit, all heated by hot water. Collage 7 rooms, 20,000 ft land. Greenhouses well stocked. Good local trade. Address, M. care W. J. Stewart, 67 Bromfield St. BOSTON MASS.

SPECIALTY FLORIST BUSINESS FOR SALE.

I offer my business of rooted cuttings, stock, greenhouses, etc., at a fair price. The greenhouses to be moved from present location. Correspondence solicited.

S. B. FIELD, Roselle, N. J.

FOR SALE.

A No. 1 Improved good business stand in the city of Nashville, Tenn., 7,500 inhabitants, 10 city building lots or about 1 1/2 acres of the best land, thereon is a dwelling of 8 rooms and an L cornered porch. Well shaded with trees and vines, six greenhouses heated by steam and one by fine two wells with windmills, good many sashes and cold frames, stock rather small, of about \$5.00, consisting of roses, bedding plants and hardy shrubs and grasses. This property I will sell very low at least one-half value, as I can't stand greenhouse work any longer. Terms one-half cash, balance in one or two years time. As I have about 23,000 violet plants and clumps, ready now. Price given on application.

M. TRITSCHLER, NASHVILLE, TENN.

FOR RENT.

Twenty greenhouses, all heated by steam, in a large western city; we I located for business, being within one block of principal cable line and doing a business of \$15,000 to \$20,000 a year. The place is well known and does a large shipping business in adjoining states. One half of the houses are at present devoted to cut flowers, balance to plants. Stock, tools, wagons, horses, etc. to be bought by the one leasing the place. This is a good opportunity for anyone who has the capital to run a place of this size. And I will rent the place low as other business in which I have engaged occupies my entire time.

Do not answer this unless you mean business and have the capital which a place of this size demands.

BOX 50, care Am. Florist, Chicago.

ROSES.

	Per 100
WABAN.....	3-inch \$ 7.00
LA FRANCE.....	3-inch 8.00
BRIDE.....	3-inch 6.00
PERLE.....	3-inch 8.00
WHITE LA FRANCE.....	3-inch 10.00

HYDRANGEAS.

ROSE.....	2 1/2-inch 5.00
CYANOCLADA.....	2 1/2-inch 5.00
WHITE FRINGED.....	5-inch 10.00

Splendid stock; clean and well grown.

J. H. HARVEY, RICHMOND, VA.

THE NEW ROSE PRESIDENT.

FRANK L. MOORE, CHATHAM, NEW JERSEY.

ROSES.

1000 American Beauties in 3-inch pots, left over after planting my houses.

First-class stock; \$7.00 per 100; the 1000 for \$60.00.

O. P. BASSETT, Hinsdale, Ill.

ROSES.

Waban, Mermel, Perle, Munc. de Watterville, Bride, Papa Gentler, Nipleton, La France, Bon Silene, Souv. d'au Ami. Fine, healthy stock from 2 1/2-inch pots \$5.00 per 100; 3-inch pots, strong, \$1.00 per 100; \$25.00 per 1000. Send for price list.

WOOD BROTHERS, Fishkill, N. Y.

Mention American Florist.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, American Beauty, Perles, Duchess of Albany, La France, Niphetos, in 2 3 and 4 inch, Gontier, Mme. Hoste, Meteor, C. Mermet, Wootton, Bride, Bon Silene in 2 and 3 inch.

PRICES GIVEN ON APPLICATION.

A few fine Hybrids and Everbloomers left.

PALMS.

Latanica Borbonica, fine large plants at \$4.00 and \$6.00 each. A few left at \$7.00, \$15.00 and \$20.00 per 100.

We will be pleased to see our friends that are passing through the city at any time. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

ROSES.

We still can supply you with a fine assortment of Roses from 2, 3 and 4-inch pots at lowest prices.

Please send in your list and we will quote lowest prices. Samples mailed if desired upon receipt of 25 cts.

WE ALSO OFFER THE FOLLOWING AT \$5 PER 100, 2-INCH POTS.

Allamanda Hendersonii. Cissus Discolor. Ferns, Gold or Silver, also Adiantum Hendersonii and Formosum. Begonia Rex, Queen of Hanover. Asparagus Tenuissimus. Ampelopsis Veitchii and Royalii. Geranium Silver Leaved and Lemon Scented. Jessamine Grand Duke and Grand Duchess. Smilax. Palms, leading sorts 1 year old, 10,000 on hand.

Forcing Bulbs at lowest prices.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS \$3.00 per 1000
HYBRIDS 4.00 per 1000

Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

ROSES.

1000 ALBANY.

1000 LA FRANCE.

1000 MERMET.

From 3 and 3½-inch pots, in fine condition, equal to 4-inch pot stock.
Price and samples on application.

NATHAN SMITH & SON, Adrian, Mich.

Mention the American Florist when writing to advertisers on this page.

ROSES. FIELD GROWN, FOR FORCING.

GOOD, STRONG BUDDED PLANTS ON MANETTI ROOTS.

HOME GROWN MUCH SUPERIOR TO IMPORTED STOCK.

Mrs. J. H. Laing, Ulrich Brunner, Gen. Jacqueminot, Magna Charta, and a full list of leading Hybrid Perpetuals for greenhouse and garden planting.

LARGE LOT EXTRA FINE MOSS AND CLIMBING ROSES.

Our usual assortment of Fruit and Ornamental Trees, Hardy Shrubs, Hardy Plants, Bulbs, Greenhouse Stock, Etc.

LET US ESTIMATE ON YOUR LIST OF WANTS FOR COMING SEASON.

Fall Catalogue and Trade List FREE, ready in August.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.

ROSES FOR BEDDING.

We have some extra fine stock of roses for bedding purposes.

	3-inch	4-inch		3-inch	4-inch
NIPHETOS.....	\$7.00	\$10.00	DUCHESS OF ALBANY.....	\$7.00	\$10.00
PAPA GONTIER.....	7.00	10.00	DUCHESS OF EDINBURGH.....	7.00	10.00
PERLES.....	7.00	10.00	MERMETS.....	7.00	10.00
WOOTTON.....	8.00	12.00	BRIDES.....	7.00	10.00
LA FRANCE.....	7.00	10.00			

All grown from two-eyed cuttings. Extra fine, healthy stock.

DIRECT ALL ORDERS TO

FOREST GLEN FLORAL COMPANY,
Forest Glen, Cook Co., Ill.

ROSES.

We still have for sale 8,000 FIRST QUALITY FORCING ROSES grown from strong cuttings in 3 and 4 inch pots, ready for immediate planting.

LA FRANCE and AMERICAN BEAUTY, 3-inch pots, \$9.00 per 100; 4 inch pots, \$12.00 per 100.

WABAN.

MERMET.

SOUV. DE WOOTTON.

SAFRANO.

BON SILENE.

PERLE DES JARDINS.

3 inch pots, \$7.00; 4-inch pots, \$10.00 per 100.

Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, - - - **Bloomsburg, Pa.**

100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

PERLE, SUNSET, WABAN, LA FRANCE, MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. GUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT.

20,000 CHRYSANTHEMUMS,

100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

Forcing Roses.

NOW READY FOR PLANTING

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

CHANGE OF NAME.

CHICAGO, Aug. 2nd, 1892
JAMES DAVIS. For many years with Klunder of New York, at present with Chief Thorpe, wishes to inform his friends and the trade in general, that hereafter he will be known as,
JAMES IVERA DONLAN.

ROSES AND YOUNG SMILAX.

MERMET, PERLE, BRIDE, WOOTTON, 2½-inch pots, \$35.00 per 1000.
STRONG SMILAX PLANTS, \$18.00 per 1000.

THE FLORAL EXCHANGE,
614 Chestnut St., Phila., Pa.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
25 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen and dealers in Florists' goods pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.
Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OUR CONVENTION SUPPLEMENT.

With this issue we present to our readers our annual convention supplement, which will, we believe, be of a great deal of interest to those unable to be present at the Washington meeting, as well as those in attendance at the convention. The interest manifested by those who happened into the office and saw prints of the plates before the supplement was issued, bears ample testimony to the fact that the portraits serve a much more important purpose than that of identification at the meeting alone. The faces of men well known to us by name, but whom we have never had an opportunity to meet personally, are always of much interest, and bring us closer to them.

As a means of identification at the meeting we believe the plan the very best that could be devised, particularly with the alphabetical arrangement of names, in addition to the key that accompanies each group. One serious defect of the numbered badge plan is the necessity of a square front view in order to read the number of the badge, and as you haven't the slightest idea as to the general appearance of the man wearing the number you are hunting for, in a large crowd the hunt is apt to be a long and very provoking one. With the portrait before you and the general appearance in mind, you can readily determine, even from a side view, whether the party is apt to be the one wanted and the necessity for a close scrutiny of each one is thus avoided.

We are convinced that we have very successfully and satisfactorily solved the problem of identification at the annual conventions of the national society, and the number of complimentary letters regarding the plan that have been sent us, are convincing proof that our plan is thoroughly appreciated.

ADVERTISING THAT PAYS.

We are in frequent receipt of letters bearing unsolicited testimony to the good returns obtained by those using our advertising columns to bring their goods to the notice of the trade. Such proofs of appreciation are certainly very gratifying, but a still more convincing testimony is the continued support accorded us by the great majority of responsible and progressive business houses, as shown by the steady increase in the amount of advertising space occupied, which indicates more conclusively than any written testimonials the high esteem in which the AMERICAN FLORIST is held as a medium through which to reach directly the buyers of the country.

That this is being understood more and more in the various departments of the trade will be apparent to any one who will take the trouble to compare the

advertising columns of current issues with those of corresponding date one year ago, and that our advertisers feel satisfied that their money thus spent is bringing in results sufficient to justify the outlay, can not in the light of these facts be questioned.

Some of our advertisers have been our staunch supporters all through the seven years of our existence; many more on later occasions. We are proud to feel that reciprocal prosperity has been the result of their cordial relations with us.

We have still room for as many more as will come, and the FLORIST will spare no effort to serve all well and faithfully.

With this issue we begin our eighth annual volume. The volume just closed contained 1,182 pages, 166 more than that of the preceding year. The fact that our subscription list is growing just as rapidly as is the trade—which is the very best we can do under our rule to send the paper to those in the trade only—shows that our efforts to keep up and abreast with the times are appreciated. But there is still room for improvement, and though we do not expect to attain perfection, we propose to make Volume 8 better than the one just closed.

THE American Carnation Society will hold an adjourned meeting at the convention hall in Washington at 2 p. m., Aug. 16. A resolution to change the time of annual meeting from the third Tuesday of February to the second Tuesday of December and other business will be considered.

St. Louis, Mo.

Trade fair for the season. We have been having cold weather compared with that reported from other large cities.

St. Louis will be well represented at the meeting of the S. A. F. The St. Louis Florist Club will extend an invitation to the S. A. F. to hold its next meeting at this city.

Among the attractions of our city are many parks and boulevards, where all styles of landscape in good taste may be seen. Forest Park, with its 21 miles of driveway, through natural woods, over streams, skirting ponds and broad expanses of lawn, is worth a journey across the continent to see. Tower Grove Park where the artificial style of park planting is displayed, is admired by all who see it. La Fayette Park is beautiful and unequalled. The Missouri Botanical Garden, second to but one in the world, should be visited by all growers and lovers of plants. Last but not least, St. Louis caters all strangers right royally.

Members of the S. A. F., we cordially invite you to the city on the "Father of Waters" in '93. Do not be afraid of the heat. Compare the signal service reports of St. Louis with those of other cities and you will say it is verily a summer resort.

J. C. DUFFEY.

Works Both Ways.

Bob Burdette has made a horticultural discovery that he records as follows: "If you will run your hand, or better, your sleeve, lightly down a blackberry cane, from top to root, you will observe that all the briars hook upward, to catch everything that comes down. Then if you will run up the other way, you will observe that all the briars hook downward, in order to catch everything as it comes up."

Catalogues Received.

J. L. Dillon, Bloomsburg, Pa., roses; H. F. Michell, Philadelphia, seeds; Hillebrand & Bredemeier, Pallanza, Italy, seeds; M. Rains & Co., London, England, bulbs; E. Y. Teas, Irvington, Ind., nursery stock; Allen I. Wood, Rochester, N. Y., nursery stock; Fred Dörner, Lafayette, Ind., new carnations; Chas. D. Ball, Holmesburg, Philadelphia, Pa., decorative plants; W. J. Hesser, Plattsmouth, Neb., decorative plants; E. H. Krelage & Son, Haarlem, Holland, bulbs; Ellwanger & Barry, Rochester, N. Y., strawberry plants, bulbs and hardy plants; C. H. Joosten, New York, insecticide (Postite); Joshua S. Ingalls & Co., Troy, O., box straps for nurserymen.

WASHINGTON CONVENTION.

Headquarters Florists' Protective Association, EBBITT HOUSE, 14 h and F Streets, N. W.

The Fourth Annual Meeting of the Florists' Protective Association will be held in the National Rifles' Armory Washington, D. C., from 3:30 to 5 p. m., THURSDAY, AUGUST 18th, 1892. Owing to the limited time at our disposal all members are urged to be on time, and to come "brim full" of new ideas and enthusiasm. The management will have some new matters to present, which they think will add to the value and efficiency of the service. Do not fail to attend this meeting. H. B. BEATTY, Sec'y.

The Secretary's rooms are ———, Ebbitt House, where he will be pleased to have you call. The "latch string is always out." Come in and register, leaving any message desired if secretary is absent.

NOTICE OF MEETING

— OF THE —

Florists' International Telegraph-Delivery Association.

The Ebbitt House will be our headquarters during the S. A. F. Convention.

The First Annual Meeting of the F. I. T.-D. Ass'n will be held in the Red Parlor of the Ebbitt House, Washington, D. C., on TUESDAY, AUGUST 16th, 1892, at 4:30 p. m., at which time and place three directors will be elected, and such other business transacted as may come before the meeting. C. B. WHITFALL, President. H. B. BEATTY, Secretary.

The Secretary's rooms are ———, where he will be pleased to have you call. The "latch string is always out." Come in and register, leaving any message desired if secretary is absent.

Flowers Wanted.

We wish to engage a regular supply of flowers to fill our standing orders for the coming season. We make a specialty of filling these order direct from the growers. They are regular daily, tri-weekly and semi-weekly, and will pay full value, but **must be choice stock**, ordinary common stock will not answer. Growers, **having first class stock in prospect**, please correspond with us early.

The Wisconsin Flower Exchange.

133 Mason St., MILWAUKEE, WIS.

Good Heavy Smilax.

Any quantity, \$15.00 per 100.

WALTER BONFIELD,

LITTLE FALLS, N. Y.

OUR NEW TRADE DIRECTORY

FOR 1893

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada. Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Mention American Florist.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 FINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

HARDY CUT FERNS
MOSS {SPAGNUM AND
GREEN SHEET.
A 1 IVY LEAVES
BOUQUET GREEN and FESTOONING of
all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.
Mention American Florist.

FLORAL DESIGNS.
The Cut Flower Worker's friend. Fine book
of 166 pages. Send \$3.50 for it to
J. HORACE MCFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

	BOSTON, Aug. 9.
Roses.....	3.00@ 6.00
Carnations.....	1.00@ 1.50
Valley.....	4.00
Asters.....	1.00@ 1.50
Stocks.....	1.00
Tuberose.....	1.00
Sweet Peas.....	3.25
Allamanda.....	3.00
Smilax.....	12.50
Adiantum.....	1.00
Asparagus.....	50.00
Pink Pond Lilies.....	8.00

	NEW YORK, Aug. 9.
Roses.....	2.00@ 3.00
Carnations.....	50
Valley.....	6.00
Gladoluses.....	50@ 1.50
Sweet peas.....	1.00@ .25
Asters.....	50@ .75
Adiantums.....	1.00
Smilax.....	15.00

	PHILADELPHIA, Aug. 9
Roses, La France, Albany, Brides.....	2.00@ 3.00
" Perle, Niphetos.....	2.00@ 3.00
" Marie Guillot.....	2.00
Carnations.....	50@ 1.00
Sweet peas.....	35@ .50
Valley.....	6.00
Cornflower.....	.50
Water lilies.....	25
Smilax.....	15.00
Adiantums.....	75@ 1.00
Asters.....	1.00

	CHICAGO, Aug. 9
Roses, Perle, Niphetos, Contier.....	2.00@ 4.00
" Mermet, La France Hoste.....	3.00@ 4.00
" Bennetts, Dukes, Woottons.....	3.00@ 4.00
" Albany, Bride.....	3.00@ 5.00
" Am. Beauties.....	8.00@ 15.00
Carnations, long.....	1.00
" short.....	50
Callas Harrisli.....	10.00
Adiantums.....	75@ 1.00
Smilax.....	15.00
Panicles.....	25
Gladoli.....	8.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carria-
ons always on hand. Return telegrams sent
immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

CUT SMILAX.
Summer prices, 15 cents per string. Special
attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

When writing to any of the adver-
tisers on this page please mention the
AMERICAN FLORIST.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST
34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 46th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHRs,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

WHOLESALE
FLORISTS
Le Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. W. ATLEE BURPEE is expected home August 18.

MR. J. B. DEAMUD, with J. C. Vaughan, is expected home from Holland, Belgium and Germany August 20.

REPORTS from pea crop in Northern Wisconsin are unfavorable, especially on extra earlys and dwarf sorts. Beans are looking well.

REPORTS from Southern France state that the crop of early flower seeds are almost a total failure. Hopes are entertained that the later kinds will turn out all right on account of some heavy rains in the latter part of July.

CALLA, O.—L. Templin & Sons are building ten new houses, 20x100 each, on a new place about a mile from the old location, and near to the railroad station. It is their intention to add ten more houses of the same size next year and abandon the old place altogether. The new houses are being put up in first-class style, and when the plant of twenty is completed they will have a model establishment. Their serious loss by fire last spring has caused them to pay particular attention to making their new plant as near fire-proof as possible. The boiler pits—the dangerous points, have been constructed with the prevention of the possibility of fire constantly in mind.

OAKLAND, CAL.—Carbone & Monti are erecting a handsome two-story building at the corner of Park and Blanding avenues. The first floor will be used as a floral store.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

OUR NEW TRADE DIRECTORY —AND— Reference Book FOR 1892 IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and Local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

YOU CAN'T AFFORD TO BE
WITHOUT THIS BOOK.

Price, \$2.00, Postpaid.

AMERICAN FLORIST CO.,

322 Dearborn St., CHICAGO.

HYACINTHS, TULIPS, VALLEY, ETC.

Owing to favorable contracts with leading growers early in the season we can make special prices on PRIME QUALITY FORCING BULBS. We carry a full assortment of florists BULBS in quantity.

SPECIAL OFFER.

We have secured a special lot of VON SION NARCISSUS, fine, well ripened Bulbs, which will pay every florist to try, \$12.00 per 1000.

Chinese Narcissus—True stock, Oct. delivery, per basket of 100, \$6.50; 3 baskets \$17.50.

Azalea indica—Leading varieties, assorted, 1st size, \$35 per 100; larger size, \$45.

If you want well shaped plants that will reach you in prime condition, send us your orders.

VALLEY PIPS—Special-early forcing grade, per 1000 \$9.50. Per box of 2,500, \$9.00 per 1000. Lots of 10,000, \$8.50 per 1000.

FLOWER SEEDS—PRIMULAS, PANSIES, CALCEOLARIAS, ETC. Select strains, the best that hard work and money can procure. Try *Barnard's Florist Mixture of Pansies*; it's made up of the rarest and finest varieties only. Per trade packet, 25c.; 1/8 oz. \$1.00; per oz. \$7.00.

W. W. BARNARD & CO.,
6 & 8 N. Clark Street, CHICAGO.

Dutch Bulbs.

Krelage's Wholesale Bulb List

for the present season (No. 460) is now ready and will be sent gratis and post free to nurserymen, seedsmen and florists only.

A GENERAL DESCRIPTIVE CATALOGUE

may be had also gratis and post free. First part (No. 455 A) containing *Gladioli* and all other Bulbs for Spring planting, was published in January. Second part (No. 455 B) devoted to *Dutch Bulbs, Etc.*, to be published as soon as possible.

Please write directly to

E. M. KRELAGE & SON,
HAARLEM, HOLLAND.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

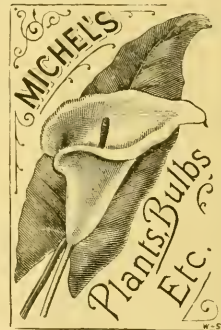
SEND IN YOUR ORDERS FOR

Dutch and French Bulbs, Liliun Harrisii, Tuberoses, Lily of the Valley, best Hamburg grown pips. Only first-class goods handled.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARACARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs and Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

TUBEROUS BEGONIAS.

Do you want stock of healthy, vigorous and reliable tubers of the very best strain which it is possible to procure?

Gained First Prize Award at the International Horticultural Exhibition, London, England, July 5, 1892.

EXTRACT FROM GARDENERS' MAGAZINE:—"Much encouragement was given in the Schedule to Tuberous Begonias, and the flowers created a brave mass of color. The great class was for a collection of double and single varieties arranged in a space not exceeding 150 square feet, the first prize being awarded to Mr. T. S. Ware, Tottenham."

EXTRACT FROM THE GARDENING WORLD:—"In the nurseryman's class for a group of single and double Tuberous Begonias arranged with foliage plants for effect and in a space not exceeding 150 square feet. The first award was accorded to Mr. T. S. Ware, Hale Farm Nurseries, Tottenham. The white, scarlet and yellow varieties were well distributed for effect, mixed with light and graceful Palms, and the whole evenly sloped up to a background of tall Palms in a central and prominent position."

SINGLE VARIETIES IN MIXTURE AND SELECTED TO COLORS.

DOUBLE VARIETIES IN MIXTURE AND SELECTED TO COLORS.

DOUBLES AND SINGLES EXQUISITE NAMED SORTS.

SEED ALSO OF BOTH DOUBLE AND SINGLE KINDS CAN BE SUPPLIED.

It is true you can get other strains of Begonias, but is it not important you should have

THE VERY BEST?

Write for prices and state quantities required to

Thomas S. Ware,

Hale Farm Nurseries.

TOTTENHAM, LONDON, ENGLAND.

PALM AND ARAUCARIA

SEED.

JUST IMPORTED FROM THEIR NATIVE FORESTS IN THE TROPICS.

Largest consignment of these seed ever received in this country. All fresh, and Guaranteed to grow 90 per cent.

Note prices below, which cannot be beaten by any responsible importer in this country; besides, we GUARANTEE GERMINATION.

	Per 100	Per 1000	Per 5'00
Kenia Forsteriana.....	\$.90	\$ 8.00	\$35.00
" Belmoreana.....	.90	8.00	35.00
" Canterburyana.....	3.00	25 00	
Sealorthis elegans.....	.45	3.50	16.00
Corypha Australis.....	.40	3.00	14.00
Araucaria excelsa.....	4.50	38.00	175 00
Areca Baueri.....	.45	3.50	16.00

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

APPLE GERANIUM SEED, fresh seed, just received, per 10 seed, 25c; 100 seeds \$1.25.
CYCLAMEN. We have an extra fine strain.
Cyclamen Persicum, finest mixed, 1/4 ounce, \$1.00; Pkt., 25c.
Emperor William, dark crimson, 50 seeds, 25c.
Giganteum Album, Mont Blanc, pure white, 50 seeds, 30c.
Deep crimson, very large, 50 seeds, 50c.
Atropurpureum, flowers large & deep, red, 50 seeds, 30c.
Sanguineum, new, blood red, 20 seeds, 50c.
Giant Flowered Varieties, extra choice mixed, 50 seeds, 50c; 1/4 ounce, \$2.10.

J. C. VAUGHAN,

12 Barclay street, 146 W. Washington St.
NEW YORK. CHICAGO.

MICHIGAN Wild Flowers

Orchids, Ferns, Shrubs and Trees, Bog Plants and Aquatics, for parks, flower gardens, rockeries, hogs, ornamental waters and carp ponds. The World's Columbian Exposition buys them. Retail, Wholesale and Carp Pond Catalogues, each free.

WILFRED A. BROTHERTON,
ROCHESTER, MICH.

CARNATIONS

Strong plants, \$8.00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc., etc.
BOUQUETIERS Pres. Cleveland, Davidson, Pres.
Garfield, Bridal Bouquet, \$8.00 per 100.
PRIMROSES, 3 1/4-inch pots, \$4.00 per 100.

WM A. BOCK, North Cambridge, Mass.

Special Offer to American Trade

LOUIS DE SMET,

NURSEYMAN, GHENT, BELGIUM,

Offer as Specialties:

Palms, Azaleas, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxinias. New Trade List on application.

Always mention the American Florist when writing to advertisers.

DARWIN TULIPS

are now generally recognized as the best strain of self-colored late Tulips in the trade. Please consult special descriptive list (No. 511) containing 300 distinct varieties. Same will be mailed gratis and post free, including supplement on nearly 40 certificated varieties, on application to

E. H. KRELAGE & SON,

HAARLEM, HOLLAND.

Special terms to the trade. Mention American Florist.

Chrysanthemums.

3 1/4-inch pots, 20 leading sorts for cut flowers, \$3.00 per 100. The same, 3 1/4-inch p.o.s, \$4.00.

CYCLAMEN PERSICUM GIGANTEUM, assorted colors, 2 1/4-inch pots, \$5.00 per 100. Same from 3-inch pots, \$8.00 per 100.

Address **J. G. Burrow,**
FISHKILL, N. Y.

ASTERS.

Cut blooms of Asters shipped on short notice. 75 cts. per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

**SEND FOR A COPY
 — OF OUR —
 TRADE DIRECTORY**
AMERICAN FLORIST CO., CHICAGO.

News Notes.

CARTHAGE, MO.—John Keller is building a new greenhouse.

SPRINGFIELD, MASS.—The wife of John Wilkinson, the florist, died July 3.

ST. CLOUD, MINN.—E. V. Campbell is building another large greenhouse.

THE Henry A. Drer Company, River-ton, N. J., has filed articles of incorporation. Capital stock, \$100,000.

HELENA, MONT.—F. E. Mills is Superintendent of the Floral Department of the State Fair, which opens here August 13.

WINONA, MINN.—An addition 20x79 is being made to the Woodlawn Cemetery greenhouse. It will be used for growing roses.

CINCINNATI.—Harry Wallace, an employee at Cook's greenhouses, was overcome by the heat July 30. He can not recover.

HELENA, MONT.—Dr. F. D. Kelsey is making a very thorough collection of the plants of the State for exhibition at the World's Fair.

BATH, N. Y.—Wm. A. Mochril has started into business as a florist here, having resigned his position as Superintendent of Horticulture for the D. & H. R. R.

VENTURA, CAL.—Mrs. Theodosia B. Shepherd has again assumed full control of the Ventura Seed and Plant Co., Mr. Boothe retiring. Mrs. Shepherd's daughter Myrtle was married August 6. The groom was Mr. Lee W. Lloyd.

WOOSTER, O.—The contract for the new greenhouses at the experiment station has been awarded to Stence, Shepherd & Ames, of this city. The contract calls for the completion of the buildings by Nov. 1, and the contract price is \$11,050.

SHARON, PA.—The Sharon Chrysanthemum Club has been organized with John Murchie, president, and E. McConnell, secretary. A chrysanthemum show will be given in November. M. I. O'Brien is building two new houses, one 100x20 and the other 70x20. Charlie Hinz is also building another new house.

MILWAUKEE, Wis.—At the last meeting of the Wisconsin Florists' and Gardeners' Club new officers were elected as follows: Geo. W. Ringrose, President; F. P. Dilger, Vice-President; A. W. Bennett, Secretary. The Club has issued a premium list for its second annual chrysanthemum show, to be held November 8 to 11. Copies may be had on application to the Secretary, Mr. A. W. Bennett, 108 Wisconsin street.

SAN FRANCISCO.—The report of the Secretary of the State Board of Horticulture states that there have been over 500,000 trees and plants quarantined during the year. He recommends more legislation for the protection of horticulturists. Among these are a law to cover defects in the present law in regard to the adulteration of olive oil and forbidding the sale of olive oil under false labels, a law to prevent the wholesale adulteration of fertilizers, the market value of which is less than sand, and a law to prohibit the sale of inferior and infected fruit in packing boxes that have already been used by respectable fruit growers or packers.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100;	\$4.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 "	50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 "	60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 "	70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

MUMS.
NOVELTIES OF '92.

MRS. E. D. ADAMS, ROSLYN.
GEO. W. CHILES, W. A. MANDA,
fine plants from 2½-in. p ts, 25c each; \$2.50 per doz.
3½-in. pots, 50c each; \$5.00 per doz.

DOUBLE SWEET ALYSIUM,

from 2½-inch pots, \$2.50 per 100.

STEVIA, very stocky plants,

from 2½-inch pots, \$2.00 per 100.

from 3½-inch pots, \$5.00 per 100.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

CABBAGE
PLANTS.

BEST LATE FLAT DUTCH,

\$1.50 per 1000; \$6.00 per 5000; \$10.00 per 10,000.

CASH WITH ORDER. —

S. O. STREBY,

Lock Box 77. UPPER SANDUSKY, OHIO.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS.

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS **P. OUWERKERK,**

P. O. Box 1845. NEW YORK.

Mention American Florist.

PANSY SEED.

The Jennings strain of large-flowering and fancy Pansies. You want this strain of Pansies if you want the best. Stock all carefully grown by myself, and first-class in every respect. To all my old patrons, will say, they will find a decided improvement from last year.

Finest mixed, all colors, pkt. 25c, 50c and \$1 each. Ounce, \$1.00; 3 or more ounces, \$5.00 per ounce. Large yellow, black eye and pure white, in separate pkts. 50c and \$1.00 each, free by mail. Pansy plants ready Sept. 1, 50c per 100; \$5 per 1000.

EL. J. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

GREVILLEA ROBUSTA, 2½-inch pots, Per 100
good.....\$8.00
ADIANTUM CUNEATUM, 3½-in., good... 8.00
CLERODENDRON BALFOURII, 2½-inch
good..... 5.00

Probst Bros. Floral Co.,
1017 Broadway, KANSAS CITY, MO.
Mention American Florist.

Grevillea Robusta.

Per doz. Per 100
2½-in. pots, 12 in. high.....\$8.00
3-inch pots, 15 in. high..... 1.50 12.00
3½-in. pots, 18 in. high..... 3.00
6-inch pots, 24 to 30 in. high... 6.00

NATHAN SMITH & SON,
ADRIAN, MICH.

CELERY PLANTS.

All the leading varieties, at \$2.00 per 1000. Larger lots very cheap. Safe arrival and satisfaction guaranteed.

G. VAN BOCHOVE & BRO.,
KALAMAZOO, MICH.

NEXT!

We have planted out most of the Begonias for tubers, but keep some ready for shipping in 2-inch pots, \$4.00 and \$4.50 per 100.

BRAUER & RICHTER, McConnellsville, Ohio.

Big Pansies.

You can't miss it with the GIANT MARKET STRAIN (Zirngiebel's). It is superb. Stocky seedlings 75c. per 100; \$5 per 1000. Strong transplanted plants ready Sept. 25, \$1.25 per 100; \$10 per 1000. Send your orders NOW.

ALEX. McBRIDE, Alplaus, N. Y.

BEGONIAS.

Per 100
Rex fine assortment.....\$5.00
Rex Lucy Cloison..... 10.00
Listri or Diadem..... 6.00
Argentina Gutata..... 4.00
Metalice, 2½ in..... 4.00
" 3½ in..... 8.00
Hydrangens Thos. Hogg, Oakes 2½ in..... 4.00
" Red Branched 2½ in..... 6.00
Send for list of field grown Carnations and Violets.

I. N. KRAMER & SON, MARION IOWA.

ADIANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade. The reasons why because it is
Best for the grower:

1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.

3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. Price, strong plants, \$8 per 100. Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

Mention American Florist.

CHINESE PEONIES

are grown in 500 distinct varieties in Krelage's Nurseries at Haarlem, Holland. Please write for special descriptive catalogue (No. 512), containing exact descriptions of over 500 varieties, cultural directions, etc., to

E. H. KRELAGE & SON,
HAARLEM, HOLLAND.

SPECIAL TERMS TO THE TRADE.

AUG. TOEFFAERT,

GHEENT, BELGIUM.

Palms, Azalea Indica,
TUBEROUS BEGONIAS.

TRADE LIST ON APPLICATION.



TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and
Regulation. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

PALMS.

KENT A BELMOREANA and KENTIA FORSTERANA,
in 3-inch pots, VERY FINE PLANTS,
\$50.00 per 100.

EDWIN LONSDALE, Florist,

Chestnut Hill PHILADELPHIA, PA

Money Order Office, Station "H".

Mention American Florist.

Zirngiebel's

GIANT MARKET and FANCY PANSIES

New crop seeds of those superb strains now
ready, in trade packets of 1,500 and 600
seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

You will benefit the American Florist
by mentioning it every time you write
an advertiser in these columns.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's
crop of the choice Sweet Pea varieties, named and mixed, that
we grow. Please send for trade list.

FOR IMMEDIATE ACCEPTANCE WE OFFER

Calla Lily Bulbs, 4 to 5 inches in circumference, \$30.00 per 1000. Prices
on larger sizes on application.
Freesia refracta alba, good flowering bulbs, \$3.00 per 1000.
Freesia refracta alba seed, 1.00 per ounce.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

PANSIES.

AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

That is what my customers say, and they are in all parts of the United States and Canada—Maine
to California, and Montreal to the Gulf of Mexico.

It care and attention will do it, they will be just a trifle better every season; quality is the first
consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will
make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after,
at 75 cents per 100; \$5.00 per 1000.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

ESTABLISHED 1835.

THE OLDEST NURSERY IN THE STATE.

THERE IS **MONEY FOR YOU** IN

POT GROWN STRAWBERRY PLANTS.

One firm handled 40,000 last year. How many do you want this year? Now is the time
to order. Large quantities raised on contract at special low rates.

General list of varieties, including the best new, at \$10 to \$15 per 1000.

ROGERS' NURSERIES,

Isaac C. Rogers.

MOORESTOWN, NEW JERSEY.

ILLUSTRATED FLORISTS' CATALOGUES AND PRICE LISTS,

At the same price as is usually charged for printing without illustrations. We are Specialists in
HORTICULTURAL PRINTING. Artistic and first-class work in every particular. No "kid glove"
any price. We do all our own work hereabout and under our own personal supervision. No charge
for illustration of any standard plant or flower.
Send for estimates on what you need. You will be pleased with our prices.

PINNEY & SHEPARD, Sturgeon Bay, Wis.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

ORCHIDS.

The finest stock in the WORLD. Nearly five
acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

SMILAX.

Nice young plants, 2½-inch, \$2.00 per 100;
\$18.00 per 1000.

CYCLAMEN PERSICUM GIGANTEUM strong
blooming bulbs, \$8.00 per 100.

F. A. BALLER,

BLOOMINGTON, ILL.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such
as Apple, Pear, Myrobalan Plum, Mahaleb and Maz-
ard Cherry, Angers Quince, Small Evergreens, For-
est Trees, Ornamental shrubs, Roses, etc. The
largest stock in the country. Prices very low.
Packing secured. Catalogue free. Send for
quotations before placing your orders elsewhere.
Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

C. G. VAN TUBERGEN, Jr.,

HAARLEM, HOLLAND,

Grower and cultivator of choice Dutch bulbs,
Hyacinths, Tulips, etc., etc.; also of various bulbous
plants, guaranteed true to name. Beautiful
and attractive for gardens and conservatories.
Orders solicited. Catalogues free on application
to his agents.

C. C. ABEL & CO., P. O. Box 920, New York.

BRADINGTON (PHENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of
FRUIT and ORNAMENTAL TREES, shrubs,
Roses, Vines, Small FRUITS, Hedge Plants,
FRUIT and BERRY TREES, SEEDLINGS.
Send Catalogue mailed free. Established 1825.
PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

"Admit Within the Fire Lines."

A New York reporter who died recently was very popular with the firemen, and they sent to the funeral an "original design," which consisted of a huge plaque of roses, in the center of which was a facsimile in white immortalis of the reporter's fire badge, which bore the inscription: "Admit only within fire lines. By order of Fire Commissioners." When the design reached the house on the day of the funeral some one had the good sense to turn it face to the wall, and the suggestive inscription was not exposed to view. The reports in the daily press credit (?) the florist with giving birth to the great original idea. We are loath to believe this.

Material for Sash Bars.

Will those who have had practical experience in the use of sash bars please say whether cypress bars will last as long and give as good satisfaction in the long run as Michigan, Wisconsin or Pennsylvania pine? Any light on this subject will greatly oblige a

COMMERCIAL GROWER.

Piping.

I would like to hear from some brother florist as to whether 2-inch rough iron pipe can be used in connection with 4-inch cast-iron pipe and in which way.

WM. HORLACHER.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

CYPRESS GREENHOUSE MATERIAL

HOT BED AND VENTILATING SASH

**CLEAR
CYPRESS
SASH
BARS**

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

SASH BARS

VENTILATORS, RIDGES, GUTTERING
AND LUMBER.

NO WIDE-AWAKE FLORIST need be told
it will pay him to use SASH BARS,
etc. made from

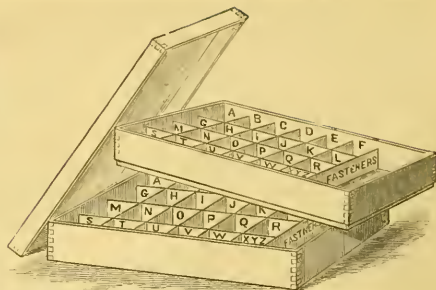
CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.
Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.

MAIL
LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.



With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture the BEST LETTERS IN THE MARKET.

sizes 1 1/4-inch and 2-inch, \$2.00 per 100. Patent
fastener with each letter.

N. F. MCCARTHY, Address 13 Green St.,
Trents. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider
a decided success. Any customers having old style
fasteners which they wish to exchange, can do so
without additional cost by writing us.

Mention American Florist.

AGENTS.

A. Rolker & Sons, New York.
P. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse,
New York.
E. Kaufman, Philadelphia, Pa.
H. Bayerdorfer & Co., Philadelphia, Pa.
A. C. Readal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for
Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
W. A. Hanft & Co., 1202 Olive Street, St.
Louis, Mo.
Wisconsin Flower Exchange, 131 Mason St.,
Milwaukee, Wis.
H. Sniderbach, 4th and Walnut Sts., Cin-
cinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts.
Richmond, Va.
Jas. Vick, Rochester, N. Y.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

HERE WE ARE AGAIN.



Send on your orders
Sash bars and vent for
sash. All kinds on
hand.

PROMPT ATTENTION.

Itemized Estimates
given, and cost of
freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE PA.

YOU CAN

**SAVE MONEY BY
PURCHASING
AND GLASS BY USING**

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.
Mention American Florist.

YOU
Find the Powder,
SCOLLAY
Sends this
GUN

By Mail for \$1.25.

All florists and amateurs should try
the newly invented rubber
Insect Powder Bulb.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Please mention American Florist.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists,
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,
use our **FLORISTS' GREEN THREADS.**

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
— WRITE FOR SAMPLES AND PRICES. —

The Florist's Opportunity.

The observant traveler can not fail to note the wonderful change in recent years in the appearance of the grounds about the railway stations. One after another the railroads are swinging into line, and the grounds around many of the stations on some roads will compare favorably with the best kept private estates. Where once were only banks of weeds, ashes and other rubbish are now to be seen slopes of well kept lawn and clumps of decorative shrubbery, and the formerly unsightly stone walls are gay with drapings of clinging vines.

There, as in almost every other phase of human industry, when people reach a certain development of refinement the florist becomes an indispensable factor, and when he is called upon to help it is a sure indication of progress toward a higher civilization.

The local florist should read the signs of the times and be prepared for his coming opportunity. It will not occupy very much space nor take much time to keep in stock a good assortment of select hardy shrubs and trees of the smaller growing kinds. The people are ready to be educated up to them and the railroads are now doing good missionary work. There are to be found everywhere "terrible examples," bare buildings the extent of whose greenery is a row of sickly pear trees, little cottages milking under the dense shade of big horse-chestnut trees, but which might, if surrounded with clumps of shrubbery, be made healthy and beautiful as well as greatly enhanced in value, on every hand little patches of front yard which might with small expense be made perfect gems but now lying waste under the disproportionate spread of overgrown Norway spruces.

The results of the great work carried on by the Arboretums now begin to appear. In the past few years an infinite variety of ornamental shrubbery and trees of moderate growth have been brought within our reach. In this connection we commend to our readers the various contributions upon trees and shrubs which have appeared from time to time in the columns of the AMERICAN FLORIST. We have always had faith in their coming value to the trade, and there are many indications that our readers are beginning to agree with us.

THE STANDARD Ventilating Machines

Received best awards at

 BUFFALO, N. Y.
 BOSTON, MASS.
 TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
 Youngstown, O.

Mention American Florist.

GREEN-HOUSE HEATING.

Meyers & Co.,
 1173 S. Ninth St.,
 PHILADELPHIA.

Send for catalogue and price list.

CARNATION CULTURE; BY
 L. L. LAMBORN.
 Third Edition containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
 NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa.

Randolph Ave. & Union St., Jersey City, N. J.

MARING, HART & CO.,
 MANUFACTURERS OF
Window Glass
 MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

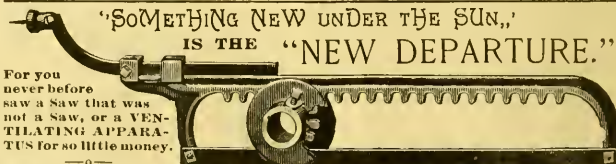
STANDARD POTS.

Price list for any number.					
2 1/2 -inch,	per 1000,	\$3.25	5-inch,	per 100,	\$ 1.88
2 3/4 "	"	3.50	6 "	"	2.20
3 "	"	4.00	7 "	"	3.50
3 1/2 "	"	5.00	8 "	"	5.00
4 "	"	7.25	9 "	"	8.00
4 1/2 "	"	9.00	10 "	"	10.00

Low freight rates to all points. Terms cash. C. O. D.

Low freight rates to all points. Terms cash. f. o. b.

HILFINGER BROS., Forl Edward. N. Y.



For you never before saw a Saw that was not a Saw, or a VENTILATING APPARATUS for so little money.

"SOMETHING NEW UNDER THE SUN,"
 IS THE "NEW DEPARTURE."

IF Send for our TREATISE ON VENTILATION and learn all about it. And, if you need the best Boiler in America, send for catalogue of our "CHAMPION."

J. D. CARMODY, Evansville, Ind.
BUTTED
GLASS
SASH
BAR.
CLIPPER

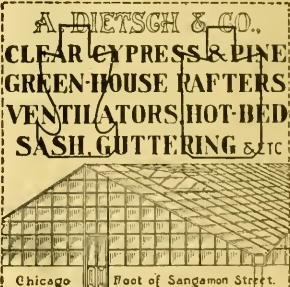
Does away with all putting and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.

Shall we hook your order next?

Enclose 2c. stamp for sample.

ADDRESS

LOCKLAND LUMBER CO.
 A. M. STEARNS, Mgr. LOCKLAND, OHIO.


FLOWER POTS.

Standard Flower Pots, Machine Pots, Hand Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

FIRST-CLASS GOODS. LOWEST PRICES.

Send for price list. Give us a trial. We will sure ly satisfy you.

BOWMANVILLE POTTERY,
 Bowmanville, Chicago, Ill.

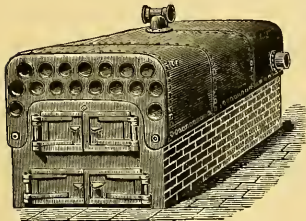
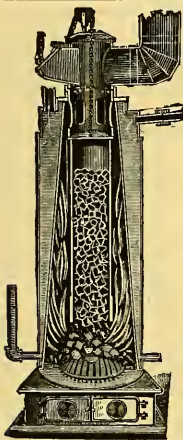
ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

ESTABLISHED 1854.

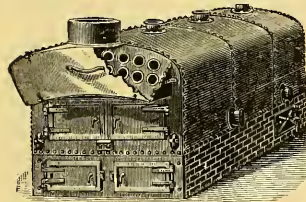
DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 1000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Atty,**OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.**CHICAGO.****THE WILKS HEATER,**
FOR HEATINGGREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO.** 123 S. Clinton St.,
CHICAGO, ILL.
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**

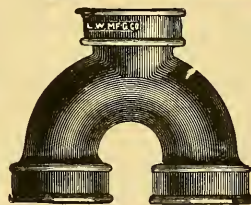
41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, firebox
sheets and heads of steel, water spaces all around
(front, sides and back). Write for information.Mention the AMERICAN FLORIST
when writing advertisers on this page.**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

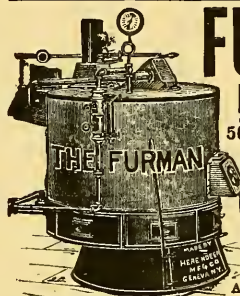
261 Amity Street, FLUSHING, Queens Co., N. Y.

Greenhouse Pipe and FittingsLarge quantities of our Pipe are in use in Green-
houses throughout the West, to any of which we
refer as to its excellent quality.Pipe can be easily put together by any one, very
little instruction being needed.**GET THE BEST!**Hot-Water Heating, in its Economy and Superi-
ority, will repay in a few seasons its cost.

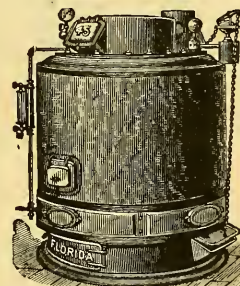
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**FURMAN BOILERS****Economical — Substantial — Safe.**

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Stanchness, Durability
and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and
Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.**
Send for new 150-page book giving full particulars and a great
deal of valuable information on modern Heating and Ventilation,
with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.****Save Your Coal and in SURE Your
PLANTS & FLOWERS
STEAM & HOT WATER
FLORIDA HEATERS****FOR GREENHOUSES.**Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water
THOUSANDS AND THOUSANDS IN USE.Has a Magazine Feed. Throws out No Gas. Saves 25 per
cent in fuel. Gives a uniform heat day and night. Fully
warranted in every respect and guaranteed to give satisfac-
tion. Reliable Agents in all the leading cities and towns in the
United States. Send for new catalogue. Address**PIERCE, BUTLER & PIERCE MFG. CO**
SYRACUSE, N. Y., U. S. A.**Do You Want
A RELIABLE
SUPPLY OF
WATER**Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER OR ERICSSON HOT-AIR PUMPING ENGINE

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.**ERICSSON****D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.

Our Glasses received the Highest Award at the Boston Convention of the S. A. E.

Index to Advertisers.

Abel C. & Co.	15	Lockland Lumber Co.	16 18 44
Advertising rates	10	Long Dan	11
Allan David	28	Londale Edwin	15
Anchorage Iron Co.	26	McBride Alex.	14
Andorra Nurseries	40	McFarland J. H.	16
Baker W. J.	15	McCullough J. Chas.	40
Baker F. A.	15	McCulloughs J. M. & Son	36
Barlee Wire & Iron	20	McFarland J. H.	16
Works	20	McFarland J. H. Co.	16
Barward W. & Co.	12	McGowan John	36
Bassett W. F.	8	McKellar & Sperry	31
Bassett W. F. & Son	24	Mac Bean A. S.	44
Bay State Hdw Co.	16	Maitre H. H. & Co.	17
Bay W. T.	22	Mann J. J.	17
Benedict Geo. H.	38	Martinez Hart & Co.	18
Berger H. H. & Co.	12	Marschuetz & Co.	48
Bickel Wm. A.	13	Meyer John C. & Co.	16
Bondell Walter	10	Michel Plant & Seed Co.	12
Bonsall Jos. E. & Son	11	Myers & Co.	18
Boston Letter Co.	16	Nanz & Veinert	9
Bowmanville Pottery	18	National Hot Water	42
Bracebridge & Co.	24	Heater Co.	20
Brace L. B.	42	Oelschig A. C.	30
Brainer & Richter	42	Oratt Co. The	39
Brotherton W. A.	13	Ouwkerk P.	14
Brown & Canfield	29	Peirce & Coleman Co.	17
Burns & Haydon	10	Pennock Samuel S. H.	38
Burrow J. G.	15	Perlich H.	40
Butz Paul & Son	44	Phoenix Nursery Co.	15
Carman H. W.	19	Pierce Butler & Pierce	19
Carmony J. D.	49	Pierson A. N.	51
Chitty H. E.	18	Pierson F. R. Co.	52
Clark Bros.	48	Pinner & Shepard	15
Cleves W. H.	16	Recher & Manda	16
Crane Stephen	45	Pittsburg Clay Mfg Co.	40
Crescent Garden The	26	Probst Bros Floral Co.	16
Creskight Geo.	28	Quaker City Mch Wks.	11
Daecke H. A.	26	Randall A. L.	11
Delaunay Iron Wks.	19	Ransom Bros.	38
De Smet L.	13	Reck John	38
Detroit Heating and	10	Roberts D. H.	19
Lighting Co.	20	Rochre Theo.	11
Devine Ho. ler Wks.	19	Rogers Nurseries	15
Dielach A. C. & Co.	18	Rolker A. & Sons	37
Dillon J. L.	9 42	Sapp H. & Son	25
Dingee & Conard Co.	14	Sapp John F.	48
Dolan James Ivers	9	Saler Seed Co.	5
Dreer H. A.	16 28	Sander & Co.	15
Eames H. W. & Co.	17	Schmitz F. W. & Co.	12
Eckhardt Theo.	12	Schneider Fred.	28
Elkewanger & Barry	24	Schulz Jacob	46
Essex Heights Floral	20 43	Schuster J. Henry	46
Co.	20 43	Sculley John A.	16
Feilhelm Lyman	16	Seibre P. & Sons	15
Field S. B.	8 14	Sheridan W. F.	11 32
Floral Exchange The	9	Sherwood Hall	15
Florists Protective	10	Siebert Chas. T.	44
Ass'n	10	Siebrecht & Wadley	41
Florida Telegraph	10	Sitallons, Wm. & S.	8
Delivery Ass'n	10	Smith Harry	42
Forest Glen Floral Co.	9	Smith C. A. Floral Co.	11
Freeman Lizzie	38	Smith & Niles & Son	14
Gardiner J. & Co.	28 30 36	Smith & Webster	17
Gasser J. M.	37	Spooner Wm. H.	10
Gibson J. C.	39	Starr Chas. T.	44
Goodyear Rubber Co.	39	Starr & Harris	44
Gutis Percha & Rub-	39	Scott Garden Im-	44
ber Mfg Co.	50	streph S. O.	44
Hall Association	16	Sunderbruch H.	44
Hammond Benj.	48	Swayne Wm.	42
Hammond W. A.	40	Tess E. V.	42
Hancock Geo.	24	Thompson Anderson	48
Harris Wm. K.	11	Kennedy	48
Hart James	11	Thorburn J. & Co.	46
Hartford & Nichols	11	Touffret Aug.	46
Harvey J. H.	8	Tricker Wm.	26
Heini John G.	36	Trischler M.	8
Heini Joseph	34	U. S. Wind Engine	17
Herendeen Mfg Co.	19	Pump Co.	17
Herr, Albert M.	15 26	Van Bochove G. & Bro.	14
Hewer W. J.	42	Van Tueren C. G.	15
Hewes A. H. & Co.	18 43	Vaughan J. C.	13 32 34 38
Hillinger Bros.	18	Wagner George	39
Hill E. G. & Co.	15	Ware Thos. S.	13
Hippard E.	18 50	Waterbury Rubber Co.	17
Holzhing & Co.	20 47	Weaver & Thos. W.	29
Hocker H. M.	36	Weich Bros.	24
Horan Edw. C.	11 37	Whitlitt Pot Co.	18 43
Hulsebosch Bros.	24	Wich W. F.	19
Hunt E. H.	11	Wilks S. Mfg Co.	19
Hunt M. A.	9	Windsor Flower Ex.	19
Hunter & Fordy	11	Wolf L. Mfg Co.	19
Irvine John C.	15	Wood Bros.	8
Jennings E. B.	14 36	Yonge R. B.	12
Josten C. H.	15 44	Zirklebel D.	15 28
Kennicott Brs.	11 43		
Kramer L. H. & Son	14		
Krause C. H. & Son	14		
Krich W. C.	12 13 16		
Kroeschell Bros.	19		
Kuehn Chas. A.	19		
Land James B.	11		
LaSone & Stahl	11		
Little W. S. & Co.	36		

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

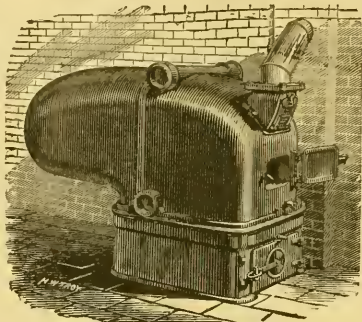
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or "Slate Top."

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



Thos. W. Weathered's Sons,

... GREENHOUSE ...

HEATING AND VENTILATING APPARATUS.

HORTICULTURAL BUILDERS.

244 Canal Street, NEW YORK.

The PENCE HEATER

HOT WATER

FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

FENCES

(Wire, Iron & Steel)

VASES

(Reservoir & Centre Drainage)

LAWN ORNAMENTS - CHAIRS, SETTEES &c.&c.
STABLE FIXTURES, WIRE WORK NETTINGS &c.

Send for No. 31 Address: **BARBEE WIRE & IRON WORKS,**
Catalogue 44 & 46 DEARBORN ST. CHICAGO, or LaFayette Ind.

THE GREAT FUEL SAVER
THE CELEBRATED

BOLTON

HOT WATER HEATER

ITS FIRE HOLDING
QUALITIES UNEQUALLED.

ESPECIALLY ADAPTING IT TO

GREENHOUSE HEATING.

DETROIT HEATING AND LIGHTING CO. SOLE MFRS.

Liesb and Wight Sis., DETROIT, MICH.

NEW YORK 121 Liberty St.
BOSTON, 42 Pearl St.
CHICAGO, 18 Lake St.
ST. LOUIS, 414 N. Broadway

GOOD, CLEAN SPHAGNUM & MOSS,

\$1.00 PER BARREL.

Or in bulk at \$12.00 per 100 cubic feet.

WM. F. BASSETT & SON, Hammonont, N. J.

ROSES.

Our TRADE DIRECTORY contains the
date of introduction and the name
of the introducer of all the roses in commerce in
America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

When writing to any of the advertisers
on this page please mention the AMERICAN
FLORIST.

THE AMERICAN FLORIST

CONVENTION SUPPLEMENT.

Vol. VIII.

CHICAGO AND NEW YORK, AUGUST 11, 1892.

Supplement to No. 219

The Convention.

Here we are.
The FLORIST goes with the boys as usual.

Call and see us at the Ebbitt House.
Didn't know we were so good looking, did you?

Step up, gentlemen, and get acquainted with each other.

How the Botanic Garden will beam all over, next week!

The shade trees of Washington. These alone are worth the trip.

The long talked of rose society is bound to come this time, sure.

Be careful about strange water, and don't drink too freely of it.

Headquarters, meeting room and exhibition room all under one roof. An experiment worth trying.

That special train with the Eastern delegation will be the biggest thing on record.

It is said that not all of the "sure catch" fishermen came home with full baskets.

E. G. Hill will make the response to the speeches of welcome. He can do it well.

The Canadians will be the "foreigners" this time. Hope they will enjoy the experience as much as we did.

Friday will be a great day. The struggle for the bowling trophies will be a lively one. May the best men win.

"Our John" will be there and will tell us about the World's Fair. The boys will be glad to meet him once more.

It is whispered that the Boston delegation will not suffer from hunger this trip. Here's hoping they don't get lost in the woods again.

The Executive Committee did well when they formulated that new code of exhibition rules. Dan Long had a hand in that. Dan believes in system.

Bring your new ideas with you. That "a fair exchange is no robbery" holds true here as in everything else.

Don't forget the "question box." It will receive your question and turn you out a correct answer, every time, and no "nickel in the slot" required.

Where shall we meet next year? Come on, St. Louis! If you display the same amount of energy which Washington did last year you will deserve to win.

Boston gets the most fun out of it this year. The poor broilers on the sleeping cars may well envy the representatives from the Hub on their delightful Fall River line trip.

Take your wife along with you if you have one. She is entitled to it, for she did not scold when you came home in the "wee sma' hours" from those florist's suppers last winter.

Wm. Elliott and Sam Henshaw ought to finish out that discussion on salt, at Washington. It would be a sterling at-

traction at the convention, if carried on between these two learned mineralogists with as much energy as on a previous occasion when it almost created a riot in Dey St.

A General Introduction.

ALPHABETICAL INDEX TO PORTRAITS.

A

Adams, C. Thompson, West Med-	302
way, Mass.	
Adams, W. A., Buffalo.	149
Ahern, J. W., Mt. Vernon, O.	122
Allan, David, Mt. Auburn, Mass.	19
Allen, C. E., Brattleboro, Vt.	106
Allen, R. W., Hudson, N. Y.	112
Asmus, Ernst, West Hoboken, N. J.	34
Atkins, F. L., Short Hills, N. J.	143
Atkinson, C. M., Brookline, Mass.	23
Austin, Edward, Evingham, Ill.	202

B

Ball, Chas., Philadelphia.	255
Barclay, Jno., Philadelphia.	266
Barker, John G., Boston.	7
Barnard, W. W., Chicago.	93
Barnes, W. H., Independence, Kans.	50
Barry, W. C., Rochester, N. Y.	124
Bather, Jno. R., Clinton, Iowa.	65
Bayersdorfer, Harry, Philadelphia.	164
Beach, F. W., Richmond, Ind.	219
Beals, E. B., Greenfield, Mass.	272
Beatty, H. B., Oil City, Pa.	249
Becker, Frank, Cambridge, Mass.	46
Becker, T. F., Allegheny, Pa.	199
Benedict, Geo. H., Yorkville, N. Y.	208
Bennett, Jos., Montreal, Que.	295
Berkowitz, Paul, Philadelphia.	225
Bertermann, John, Indianapolis, Ind.	310
Bertermann, W. G., Indianapolis, Ind.	176
Bishop, Wm. R., Burlington, N. J.	72
Bitner, J. W., Lancaster, Pa.	234
Blanc, A., Philadelphia.	318
Bock, Wm. A., No. Cambridge, Mass.	170
Bock, Mrs. W. A., No. Cambridge,	330
Mass.	

Bolan, J. E., Akron, O.	262
Bonfield, W., Little Falls, N. Y.	194
Bonsall, Jos. E., Salem, O.	240
Brague, L. B., Hinsdale, Mass.	80
Brechmin, W. L., Philadelphia.	145
Brinton, C. E., Wilmington, Del.	312
Brown, A. C., Springfield, Ill.	323
Brown, A. Lincoln, Philadelphia.	267
Brown, Henry W., Danville, Va.	111
Brown, Robt. S., Kansas City, Mo.	179
Bryant, Henry, St. Albans, Vt.	97
Buckbee, H. W., Rockford, Ill.	1
Buckbee, Mrs. H. W., Rockford, Ill.	327
Bunyard, Harry, Short Hills, N. J.	74
Burns, Alex., New York.	98
Burrow, J. G., Fishkill, N. Y.	305
Burton, John, Philadelphia.	161
Bussard, Henri, Vonkers, N. Y.	95
Butler, Thos., Philadelphia.	309
Butz, Wm. T., New Castle, Pa.	123

C

Campbell, C., Montreal.	71
Carmony, J. D., Evansville, Ind.	33

Cartledge, Thomas, Philadelphia.	239
Chapel, Harry, Williamsport, Pa.	167
Champion, John N., New Haven, Ct.	184
Chitty, H. E., Paterson, N. J.	20
Clark, W. S., Washington.	116
Cliffe, David, Germantown, Pa.	245
Coles, H. J., Toronto.	244
Comley, James, Lexington, Mass.	42
Connelley, John J., Bryn Mawr, Pa.	269
Congdon, A. R., Oberlin, O.	47
Cooley, Mrs. I. H., Manchester, O.	335
Cowell, J. F., Buffalo.	135
Crabb, Geo. F., Grand Rapids, Mich.	205
Craig, Robert, Philadelphia.	8
Critchell, B. P., Cincinnati, O.	63

D

Dahl, C. A., Atlanta, Ga.	173
Dale, H., Brampton, Ont.	281
Dallas, Alex., Waterbury, Conn.	67
Davison, W. R., Nyack, N. Y.	119
Davison, Mrs. W. R., Nyack, N. Y.	343
Dayhoff, Mrs. J. W., Hagerstown, Md.	344
Dean, James, Bay Ridge, N. Y.	9
De Cou, Franklin, St. Paul, Minn.	169
DeMuth, Chas. E., Connellsville, Pa.	242
Dickmann, Jos. F., St. Louis.	58
Dihm, Wm., New York.	153
Dillon, J. L., Bloomsburg, Pa.	211
Dirwanger, Jos. A., Portland, Me.	45
Dirwanger, Mrs. J. A., Portland, Me.	325
Doyle, John, Montreal.	192
Drauid, Chas. F., Brooklyn, N. Y.	204
Dreer, Wm. F., Philadelphia.	107
Dudley, Miss Hannah E., Bath, N. Y.	328
Dunlop, J. H., Toronto, Ont.	263

E

Eells, Benj. H., Laredo, Tex.	308
Eisele, C., Philadelphia.	73
Ekas, Wm. A., Baltimore.	304
Elliott, Wm., New York.	213
Ellis, W. H., Milwaukee.	206
Ely, Z. DeForest, Philadelphia.	127
Eslar, John G., Saddle River, N. J.	162
Evans, J. A., Richmond, Ind.	54
Ewell, Warren, Dorchester, Mass.	256
Ewing, A. H., Toronto, Ont.	273

F

Farquhar, Robt., Boston.	133
Farson, D. D. L., Philadelphia.	136
Feast, Chas. F., Baltimore.	218
Feast, Wm., Baltimore.	220
Felthousen, J. E., Schenectady, N. Y.	119
Ferris, Jas. D., Kingston, N. Y.	284
Ferris, Richard, Kingston, N. Y.	200
Forsterman, I., Newtown, L. I., N. Y.	24
Foster, F. G., Hamilton, Ont.	315
Fox, Charles, Philadelphia.	193
Franks, Thos., Champaign, Ill.	254
Freeman, J. R., Washington.	40
Frost, Adolph, Cortland, N. Y.	100

G

Gasser, J. M., Cleveland, O.	31
Gauges, Philip, Washington.	223
Geduldig, G., Norwich, Conn.	137
Gibbs, C. F., St. Johnsbury, Vt.	177
Goodell, L. W., Dwight, Mass.	109
Gordon, Mrs. Geo., Milwaukee.	329
Gordon, J. Palmer, Ashland, Va.	321

Grant, G. L., Chicago.	76
Grant, Mrs. G. L., Chicago.	342
Griffin, Thos., Westbury, L. I., N. Y.	306
Griffin, Wm., Lenox, Mass.	287
Gude, A., Washington.	84
Gude, Wm. F., Washington.	55
Guerinac, Louis, Cambridge, Mass.	79
Guy, E. W., Belleville, Ill.	297

H

Hacntze, E., Fond du Lac, Wis.	274
Hale, C. F., Washington.	39
Hammond, Benj., Fishkill-on-Hudson, N. Y.	250
Hammond, W. A., Richmond, Va.	21
Hancock, Jas. G., Grand Haven, Mich.	61
Hannam, Henry, Wilmington, Del.	25
Harper, Wm. Warner, Philadelphia.	195
Harris, F. L., Wellesley, Mass.	36
Harris, W. J., Portsmouth, Va.	264
Harris, W. K., Philadelphia.	6
Harrison, J. J., Painesville, O.	62
Hartje, John, Indianapolis, Ind.	226
Hawthorne, P. J., Chicago.	166
Hay, Chas. E., Springfield, Ill.	91
Hay, John S., Oneida, N. Y.	51
Heacock, Jos., Jenkintown, Pa.	189
Heintz, J. G., Terre Haute, Ind.	182
Helms, Walter, Janesville, Wis.	320
Helms, Mrs. Walter, Janesville, Wis.	338
Henshaw, Sam'l, W. Brighton, N. Y.	129
Henshaw, Mrs. Sam'l, West Brighton, N. Y.	342
Herendeen, W. L., Geneva, N. Y.	172
Hermann, C., Frederick, Md.	217
Herr, Albert M., Lancaster, Pa.	157
Hesser, W. J., Plattsmouth, Neb.	66
Hews, A. H., N. Cambridge, Mass.	215
Hieble, Adolph, Parkersburg, W. Va.	3
Hill, E. G., Richmond, Ind.	32
Hill, B. D., Peabody, Mass.	87
Hippard, E., Youngstown, O.	314
Hitchings, Edw. W., New York.	165
Hobbs, T. C., Anchorage, Ky.	284
Hobson, John, Norwynden, Pa.	64
Horan, E. C., New York.	293
Horan, James, Bridgeport, Conn.	301
Hoyt, R. D., Seven Oaks, Fla.	26
Hulsebosch, A., New York.	77
Hunt, E. H., Chicago.	137
Hunt, M. A., Terre Haute, Ind.	27
Hunter, Frank D., New York.	110

I

Imlay, J. D., Zanesville, O.	110
------------------------------	-----

J

Jansen, Ed., New York.	92
Joosten, C. H., New York.	293
Jordan, J. M., St. Louis.	2

K

Kane, Hugh A., Washington.	183
Kehrmann, S., Jr., St. Louis.	313
Kennicott, Flint, Chicago.	103
Kidwell, J. F., Chicago.	146
Koehler, A. Jr., Philadelphia.	276
Koffman, E., Walden, N. Y.	186
Kramer, L. R., Wooster, O.	160
Kress, Edw., Baltimore.	252
Krick, W. C., Brooklyn, N. Y.	268
Krombach, Chas., Brooklyn, N. Y.	105
Krueger, A., Meadville, Pa.	115
Krueger, Mrs. A., Meadville, Pa.	337

L

Laing, W. J., Toronto, Ont.	180
Lamb, J. M., Fayetteville, N. C.	191
Lanc, John, Chicago.	278
Lange, H. F. A., Worcester, Mass.	290
LaRoche, F., Philadelphia.	270
Leamy, Mrs. E. A., Devon, Pa.	333
Lee, W. A., Burlington, Vt.	150
Lombard, R. T., Wayland, Mass.	68
Long, Dan' L., Buffalo.	6
Lonsdale, Edwin, Philadelphia.	18
Lovelsky, Alfred J., Wethersfield, Ct.	322
Ludwig, E. C., Allegheny, Pa.	207
Ludwig, J. W., Allegheny, Pa.	197

M

McAllister, F. E., New York.	151
McCarthy, N. F., Boston.	175
McCullough, J. Chas., Cincinnati.	159
McFarland, J., Horace, Harrisburg, Pa.	56
McGillivray, D., Brattleboro, Vt.	291
McGowan, Jno., Orange, N. J.	155
McRoberts, Wm., Baltimore.	74
Maitre, R., New Orleans, La.	214
Mann, R. H., Lansing, Mich.	49
Marchand, Paul, S. Manchester, N. Y.	285
Marshall, Geo. W., Everett, Mass.	209
Marshall, Mrs. Geo. W., Everett, Mass. (331 by error of engraver)	341
Martin, Wm., Brookline, Mass.	251
Mass, Geo. H., Woodstock, Vt.	78
May, John N., Summit, N. J.	11
Maybury, Thos., Pittsburg.	279
Maynard, Prof. S. T., Amherst, Mass.	336
Mendenhall, R. J., Minneapolis, Minn.	17
Mendenhall, Mrs. R. J., Minneapolis	326
Mepsted, Edw. L., Buffalo.	582
Michel, E. A., St. Louis.	28
Miller, Geo. W., Chicago.	130
Moninger, John C., Chicago.	118
Montgomery, Alex., Natick, Mass.	175
Moore, Frank L., Chatham, N. J.	278
Morris, W. L., Des Moines, Ia.	44
Morton, Jas. H., Boston.	280
Morton, Jas., Clarksville, Tenn.	300
Moss, Isaac H., Govanstown, Md.	171
Murdock, Alex., Pittsburg, Pa.	99
Murdock, H. L., West Gardner, Mass.	261

N

Nanz, Henry, Louisville, Ky.	148
Nash, S. C., Clifton, N. J.	69
Neuner, Alfred A., Louisville, Ky.	131
Neuner, Chas., Louisville, Ky.	189
Nickels, Mrs. Anna B., Laredo, Tex.	340
Norton, M. H., Boston.	15

O

Oelschig, A. C., Savannah, Ga.	85
Oliver, John, Lowell, Mass.	96
Otter, Harold, Doylestown, Pa.	196

P

Palmer, W. J., Buffalo.	102
Patterson, R. C., Pittsburg, Pa.	316
Peck, L. T., Boston.	185
Pennan, J., Arnot, New York.	286
Pennock, C. J., Kennett Square, Pa.	319
Pennock, F. M., Kennett Square, Pa.	259
Pennock, S. S., Philadelphia.	156
Phelps, H. L., Springfield, Ill.	132
Pierson, A. N., Cromwell, Conn.	296
Pierson, F. R., Tarrytown, N. Y.	114
Pierson, Lincoln, Irvington-on-Hudson, N. Y.	90
Plumb, Wm., Riverdale-on-Hudson, N. Y.	37

R

Raynolds, Jas. D., Riverside, Ill.	35
Reck, John, Bridgeport, Conn.	27
Reider, Mrs. Henry, Wilmington, N. C.	331
Reiners, Chas. W., Louisville, Ky.	241
Reineman, E. C., Allegheny, Pa.	253
Renard, Jos., Unionville, Pa.	311
Remison, Walter S., Sioux City, Ia.	289
Reynolds, C. Leslie, Washington.	212
Rochrs, Julius, Carlton Hill, N. J.	307
Rochrs, Theo., New York.	232
Rolker, Aug., New York.	174
Rose, Lucius, Akron, O.	152
Rupp, D. C., Shiremanstown, Pa.	229
Rupp, John F., Shiremanstown, Pa.	238

S

Salzer, H. A., La Crosse, Wis.	29
Samuels, J. M., Chicago.	168
Sandiford, Rob't, Mansfield, O.	70
Sands, Wm. B., Baltimore, Md.	198
Sanford, C. J., Unionville, Conn.	265
Saul, John, Washington.	43
Saunders, M. R., Aurora, Ill.	260

Schaefer, Francis H., Newburg, N. Y.	243
Schlegel, F. R., Rochester, N. Y.	141
Schmitt, A., Glenville, O.	141
Schneider, Fred, Attica, N. Y.	82
Schneider, Mrs. Fred, Attica, N. Y.	339
Schramm, B., Toledo, O.	303
Schulz, Jacob, Louisville, Ky.	139
Scollay, John, Brooklyn, N. Y.	134
Scollay, U. G., Brooklyn, N. Y.	142
Scott, Jas. W., Galt, Ont.	460
Scott, Wm., Buffalo.	86
Seale, H. D., Warsaw, Ind.	299
Seidewitz, E. A., Annapolis, Md.	52
Shea, J. F., Jamaica Plain, Mass.	88
Sheridan, W. F., New York.	48
Siebert, Chas. T., Pittsburg, Pa.	257
Siebrecht, H. A., New York.	221
Sinclair, W. A., Ingersoll, Ont.	203
Singler, N., Morgan Park, Ill.	120
Small, J. H., Sr., Washington.	146
Smith, Elmer D., Adrian, Mich.	38
Smith, W. R., Washington.	14
Smyth, W. J., Chicago.	228
Spacht, Isaac, Jerseyville, Ill.	233
Spalding, John, New London, Conn.	147
Stahl, B., Philadelphia.	271
Stearns, A. M., Lockland, O.	89
Steffens, E., New York.	227
Stewart, Wm. J., Boston.	12
Strattan, Geo. M., Villa Nova, Pa.	210
Sutherland, Geo. A., Boston.	235
Swayne, Edw., Kennett Square, Pa.	22

T

Taplin, Stephen, Detroit, Mich.	187
Taylor, J. H., Bayside, N. Y.	108
Temple, J. T., Davenport, Ia.	298
Thorpe, John, Chicago.	10
Tong, H., Erie, Pa.	181
Tricker, Wm., Dongan Hills, N. Y.	81
Trussell, Geo., Montreal.	101
Turnlev, C. W., Haddonfield, N. J.	188

V

Vair, Geo., Toronto, Ont.	246
Van Ruyper, E. J., Belleville, N. J.	237
Vaughan, J. C., Chicago.	30
Virnelson, W. B., Petersburg, Va.	292

W

Wade, J. H., Evansville, Ind.	231
Wadsworth, B. E., Danville, Ill.	216
Wagner, C. M., Rider, Md.	236
Wagner, J. L., Lutherville, Md.	324
Waldbart, Alex., St. Louis.	155
Walker, Herbert G., Louisville, Ky.	283
Wallace, D., Philadelphia.	163
Wallace, D., Philadelphia.	125
Ward, C. W., E. Moriches, N. Y.	128
Ward, J. M., Peabody, Mass.	154
Watson, G. C., Philadelphia.	317
Welch, Edw. J., Boston.	16
Welch, P., Boston.	222
Whildin, J. G., Philadelphia.	113
Whitcomb, A., Lawrence, Kans.	248
White, John, Pittsfield, Mass.	83
Whiting, W. H., Wellsboro, Pa.	5
Whitnall, C. B., Milwaukee, Wis.	5
Whitnall, Mrs. C. B., Milwaukee, Wis.	334
Wiegand, A., Indianapolis, Ind.	201
Wight, Lothrop, Wellesley Hills, Mass.	121
Williams, C. O., Batavia, Ill.	258
Wintzer, Antoine, West Grove, Pa.	224
Wood, C. F., Richmond, Va.	288
Wood, Elijah A., West Newton, Mass.	138
Wood, L. E., Fishkill, N. Y.	158
Woodruff, D. B., Macon, Ga.	230

Y

Young, John, New York.	247
Young, Robt. B., New York.	94
Young, Thos. Jr., New York.	126

Z

Zirngiebel, Denys, Needham, Mass.	104
-----------------------------------	-----

THE HEADQUARTERS of the AMERICAN FLORIST at the Convention will be Room 9, Ebbitt House. Call and see us.

If you want the best, if the best
is none too good for you,

~ SEND TO ~

YOUNG BROS.,

20 W. 24TH STREET,

NEW YORK CITY.

THE LARGEST CUT FLOWER COMMISSION HOUSE
IN THE UNITED STATES.

THE PRODUCTIONS OF THE MOST NOTED
AMERICAN GROWERS ARE TO BE
FOUND HERE EXCLUSIVELY.

REMEMBER THIS AS SOON AS TRADE BEGINS.

WELCH BROS.,

Wholesale Shippers of

ROSES, CARNATIONS, SMILAX, ORCHIDS,

AND ALL OTHER VARIETIES OF CUT FLOWERS,
FRESH CUT, CAREFULLY PACKED.

165 Tremont Street, BOSTON, MASS.

Price List furnished on application.

CARNATIONS
A SPECIALTY.

I have a large stock of all the NEW and leading varieties including varieties introduced this year.

Will also list Novelties of '93 as soon as out.

Rooted Cuttings, Small Plants and Field Grown Plants in season.

Correspondence solicited.

Geo. Hancock,
GRAND HAVEN, MICH.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

Key to Portraits.

- 1 H. W. Buckhee, Rockford, Ill.
 - 2 J. M. Jordan, St. Louis, Mo.
 - 3 E. G. Hill, Richmond, Ind.
 - 4 Wm. K. Harris, Philadelphia.
 - 5 C. E. Whitall, Milwaukee, Wis.
 - 6 Dan'l B. Long, Buffalo.
 - 7 Jno. G. Barker, Boston.
 - 8 Robert Craig, Philadelphia.
 - 9 James Dean, Bay Ridge, N. Y.
 - 10 John Thorpe, Chicago.
 - 11 John N. May, Summit, N. J.
 - 12 W. J. Stewart, Boston.
 - 13 M. A. Hunt, Terre Haute, Ind.
 - 14 Wm. R. Smith, Washington.
 - 15 M. H. Norton, Boston.
 - 16 F. Welch, Boston.
 - 17 R. J. Mendenhall, Minneapolis, Minn.
 - 18 Edwin Lonsdale, Chestnut Hill, Phila.
 - 19 David Allen, Mt. Auburn, Mass.
 - 20 H. E. Chitty, Paterson, N. J.
 - 21 W. A. Hammond, Richmond, Va.
 - 22 Edw. Swayne, Kennett Square, Pa.
 - 23 C. M. Atkinson, Brookline, Mass.
 - 24 I. Forsterman, Newtown, N. Y.
 - 25 Henry Hannan, Wilmington, Del.
 - 26 A. Hulsebosch, New York.
 - 27 John Beck, Bridgeport, Conn.
 - 28 Prof. S. T. Maynard, Amherst, Mass.
 - 29 H. A. Salzer, La Crosse, Wis.
 - 30 J. C. Vaughan, Chicago.
 - 31 J. M. Gasser, Cleveland, O.
 - 32 B. D. Hill, Peabody, Mass.
 - 33 J. D. Carmody, Evansville, Ind.
 - 34 Ernst Asmus, West Hoboken, N. J.
 - 35 J. D. Reynolds, Riverside, Ill.
 - 36 F. L. Harris, Wellesley, Mass.
 - 37 Wm. Plumb, Riverdale-on-Hudson, N. Y.
 - 38 Elmer D. Smith, Adrian, Mich.
 - 39 C. F. Hale, Washington.
 - 40 J. R. Freeman, Washington.
 - 41 A. Schmitt, Glenville, O.
 - 42 Jas. Conley, Lexington, Mass.
 - 43 John Saul, Washington.
- See alphabetically arranged list of names else where.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

THE ATTENTION OF FLORISTS

and others is invited to our immense stock of *FIELD GROWN*

HYBRID PERPETUAL ROSES FOR FORCING,

Ready for Shipment October 1st.

The plants are principally one year budded low on the Manetti, all of our own growing (*which are superior to the imported*) and embrace the best kinds suitable for the purpose.

VARIETIES.

Anna de Diesbach, Alfred Colomb, Baron de Bonstetten, **Baroness Rothschild**, Charles Lefebvre, Countess of Oxford, Earl of Dufferin, **Fisher Holmes**, Francois Levet, Francois Michelin, Gen. Jacqueminot, Gloire de Margottin, Jean Liabaud, John Hopper, La Reine, Lady Helen Stewart, **Mme. Gabriel Luizet**, Mme. Victor Verdier, **Magna Charta**, Marie Baumann, Marie Rady, **Marshall P. Wilder**, Maurice BERNARDIN, Merveille de Lyon, **Mrs. John Laing**, **Paul Neyron**, Pierre Notting, Prince Camille de Rohan, **Ulrich Brunner**. We have also a fine lot of **Climbers** and **Mosses**.

Parties desiring particular varieties should send in their orders as early as possible. **PRICES COMPARE FAVORABLY WITH THOSE OF EUROPEAN GROWERS.** Correspondence solicited.

ORDER EARLY!! CATALOGUE FREE.

ELLWANGER & BARRY, MOUNT HOPE NURSERIES, ROCHESTER, N. Y.



PANSIES

FOR PROFIT.

As profitable an investment as a retail florist can make is to invest a few dollars in sash, put up a cold frame or two and plant them to Pansies.

The amount of money expended is trifling, the labor almost nothing and the returns; well if you have never tried it try it this season, keep a record and see if anything pays you much better.

"Well begun is half done" is an old saying that is especially applicable to Pansies, the beginning of which is the strain of seed used. I grow all my own seed, using more care and labor in the selection than would be possible for any one growing seed for sale to use and make a profit on it.

More than that, I grow the plants up to a suitable size for planting the frames, and growing such large quantities, sell them so low that, quality of strain considered, they cost you less than if you grew them yourself.

The price is 75 cents per 100, or \$3.00 per 500, either by mail or pre-paid express; \$5.00 per 1000 you to pay the express.

I would respectfully solicit a trial of my Pansies, and will be pleased to meet you at the Convention and talk on any of my three hobbies, Pansies, Carnations or Smilax.

A little circular containing a few points on Pansy culture will be sent to you for the asking. Letters of inquiry are answered and orders acknowledged the day they are received.

ALBERT M. HERR,
L. B. 338,
LANCASTER, PA.

(See my advs. in regular issues.)

THE S. A. F. having failed to provide any means for mutual recognition, the lively American Florist has stepped in with an elegant portrait scheme. Therefore those who want to talk to J. Horace McFarland Company about catalogues or printing can look for Mr. McFarland, who will be number 56 at Washington. He will wear that number on his coat, too ('twill do in place of that "red coat" he ought to have worn at Toronto last year).

Mention American Florist.



REMEMBER US when you need Palms, Rare Tropical Fruit Plants, Florida Plants, or Choice Exotics. Send stamp for full catalogue. A stock of 300,000 potted Palms. Decorative and other plants, and acres of nursery stock.

REASONER BROS.,
Oneco, Florida.

T. C. HOBBS, Prest. and Sec'y.

Key to Portraits.

- 44 W. L. Morris, Des Moines, Iowa.
- 45 Jos. A. Dirwanger, Portland, Me.
- 46 Frank Becker, Cambridge, Mass.
- 47 A. R. Congdon, Oberlin, O.
- 48 W. F. Sheridan, New York.
- 49 R. H. Mann, Lansing, Mich.
- 50 W. H. Barnes, Independence, Kans.
- 51 John S. Hay, Oneida, N. Y.
- 52 E. A. Seldevitz, Annapolis, Md.
- 53 Edw. J. Mepsted, Buffalo.
- 54 J. A. Evans, Richmond, Ind.
- 55 Wm. F. Gude, Washington.
- 56 J. Horace McFarland, Harrisburg, Pa.
- 57 G. Adolph Hiehle, Parkersburg, W. Va.
- 58 Jos. F. Dickhut, St. Louis.
- 59 James Horan, Bridgeport, Conn.
- 60 James W. Scott, Galt, Ont.
- 61 Jos. G. Hancock, Grand Haven, Mich.
- 62 J. J. Harrison, Painesville, O.
- 63 B. F. Critchell, Cincinnati, O.
- 64 Edw. C. Horan, New York.
- 65 Jno. R. Bather, Clinton, Iowa.
- 66 W. J. Hesser, Plattsmouth, Neb.
- 67 Alex Dallas, Waterville, Conn.
- 68 R. T. Lombard, Weyland, Mass.
- 69 S. C. Nash, Clinton, N. J.
- 70 Rob't Sandford, Mansfield, O.
- 71 C. Campbell, Montreal.
- 72 Wm. R. Bishop, Burlington, N. J.
- 73 C. Elsie, Philadelphia.
- 74 H. A. Bunday, Short Hills, N. J.
- 75 John McGowan, Grange, N. J.
- 76 G. E. Grant, Chicago.
- 77 E. H. Flint, Chicago.
- 78 Geo. H. Mass, Woodcock, Vt.
- 79 Louis Guerin, Cambridge, Mass.
- 80 L. B. Bracco, Hinesdale, Mass.
- 81 Wm. Tricker, Dongan Hills, N. Y.
- 82 Fred Schneider, Attica, N. Y.
- 83 W. H. Waiting, Wallboro, N. H.
- 84 A. Gude, Washington.
- 85 A. C. Oelschig, Savannah, Ga.
- 86 Wm. Scott, Huff, Io.
- 87 E. Hippard, Youngstown, O.
- 88 J. F. Shen, Jamaica Plain, Mass.
- 89 A. M. Stearns, Lockland, O.
- 90 Lincoln Pearson, Irvington-on-Hudson, N. Y.
- 91 Chas. E. Ilk, Springfield, Ill.
- 92 Ed. Jensen, New York.
- 93 W. W. Barnard, Chicago.
- 94 Rob't B. Young, New York.
- 95 Henri Russard, Yonkers, N. Y.
- 96 John Oliver, Lowell, Mass.
- 97 Henry Bryant, St. Albans, Vt.

[See alphabetical arrangement of names elsewhere.]

CHAS. RAYNER, Manager.

ANCHORAGE ROSE CO.

ANCHORAGE, KY.,
WHOLESALE ONLY.

Entire Attention Devoted to

Cut Flowers.

SPECIALTIES:

ROSES, CARNATIONS, CHRYSANTHEMUMS AND VIOLETS.

Telegraph Orders Promptly Filled. Now is the time to make your contracts for the coming season.

AGENTS FOR "The Concentrated Aquous Extract of Tobacco", the only perfect preparation for fumigating purposes. Has been tested by us for a year in our new and original apparatus for steam fumigation. Write for circular with price, etc.

H. A. DAACKE,
Seeds and Bulbs,
410 West 14th St., New York.

Forcing Dutch Hyacinths.

LOMAN'S STOCK, \$3.00 per 100, or \$23.00 per 1000.

FORCING TULIPS, assorted, \$45.00 per 1000. For other goods write for a list.

Use I hold Cable Code to procure goods quick.

WATER LILIES, CHOICE AQUATICS.

A grand collection of the newest and choicest in cultivation. Awarded Certificate of Honorable Mention at the Convention of American Florists, held at Toronto, August, 20th, 1891.

WATER LILY SEED, HARDY AND TENDER VARIETIES A SPECIALTY.

Special Trade Rates. Send for Prices.

WM. TRICKER, Dongan Hills, N. Y.





WM. J. BAKER, WHOLESALE * FLORIST,

1432 South Penn Square,

PHILADELPHIA, PA.

Carnations my Specialty.

CHAS. W. McKELLAR.

FREDERICK SPERRY.

McKELLAR & SPERRY, Wholesale Commission Florists

128 AND 129 MICHIGAN AVENUE,

Near Madison Street,

CHICAGO.

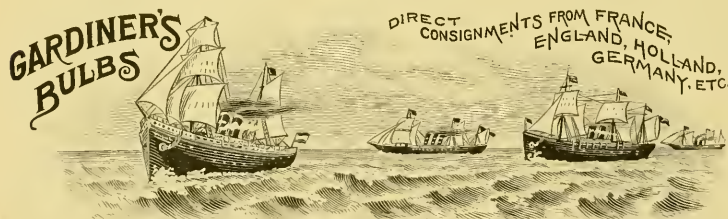
NOTICE.—We will be prepared on and after August 15 to receive all consignments and fill all orders with which you may favor us.

Store open Day and Night, excepting Sundays we close at noon.

Key to Portraits.

- 154 G. C. Watson, Philadelphia.
- 155 Alex. Waldbart, St. Louis.
- 156 S. S. Penrock, Philadelphia.
- 157 A. M. Herr, Lancaster, Pa.
- 158 L. E. Wood, Fishkill, N. Y.
- 159 J. Chase, McCullough, Cincinnati, O.
- 160 L. H. Kramer, Wooster, O.
- 161 John Barton, Chestnut Hill, Phila.
- 162 Jno. G. Keler, Soudie River, N. J.
- 163 D. Wallace, Philadelphia.
- 164 Harry Bayersdorfer, Philadelphia.
- 165 T. C. Hobbs, Anchorage, Ky.
- 166 P. J. Hauswirth, Chicago.
- 167 Larry Chapell, Williamsport, Pa.
- 168 J. M. Samsels, Chicago.
- 169 Franklin De Cou, St. Paul, Minn.
- 170 W. A. Bock, N. Cambridge, Mass.
- 171 Isaac H. Moss, Gowanstown, Md.
- 172 W. L. Herendeen, Geneva, N. Y.
- 173 C. A. Dahl, Atlanta, Ga.
- 174 August Kolker, New York.
- 175 N. F. McCarthy, Boston.
- 176 W. G. Berteaux, Indianapolis.
- 177 C. F. Gibbs, St. Johnsbury, Vt.
- 178 Alex. Montgomery, Natick, Mass.
- 179 Robt. S. Brown, Kansas City, Mo.
- 180 W. J. Laing, Toronto, Ont.
- 181 H. Tong, Erie, Pa.
- 182 Jno. G. Heintz, Terre Haute, Ind.
- 183 Hugh A. Kane, Washington.
- 184 Jno. N. Champlin, New Haven, Conn.
- 185 L. T. Peck, Boston.
- 186 E. Koffman, Walden, N. Y.
- 187 Stephen Taplin, Detroit, Mich.
- 188 C. W. Turnley, Laddonsfield, N. J.
- 189 Chas. Neuner, Louisville, Ky.
- 190 Jos. Hancock, Jenkintown, Pa.
- 191 J. M. Lamb, Fayetteville, N. C.
- 192 John Doyle, Montreal.
- 193 Charles Fox, Philadelphia.
- 194 W. Bonfield, Little Falls, N. Y.
- 195 Wm. Warner Harper, Chestnut Hill, Phila.
- 196 Harold Otter, Doylestown, Pa.
- 197 J. W. Ludwig, Allegheny, Pa.
- 198 Wm. B. Sands, Baltimore.
- 199 T. F. Beckert, Allegheny, Pa.
- 200 Richard Ferris, Kingstown, N. Y.
- 201 A. Wiescholski, Ind.
- 202 Edw. Austin, Ellingham, Ill.
- 203 W. A. Sinclair, Ingersoll, Ont.
- 204 Chas. F. Draviet, Brooklyn, N. Y.
- 205 Geo. F. Crabb, Grand Rapids, Mich.
- 206 W. H. Ellis, Milwaukee, Wis.
- 207 E. C. Ludwig, Allegheny, Pa.
- 208 Geo. H. Benedict, Yorkville, N. Y.

Mention the AMERICAN FLORIST when writing advertisers on this page.



WHAT TO GROW

is told in our Florists' Wholesale List in as concise a manner as possible and it will pay any florist to carefully read over the information therein contained for hints on this important point.

WHEN TO GROW.

To a certain extent growing should be kept up all the time, but study should be given to the missing of production at such periods as call for extraordinary supplies, such as Christmas and New Year, Easter, Decoration Day and Thanksgiving. Planting done in succession to have small supplies continually coming in between these periods and extra batches for these great occasions will be found most profitable.

WHERE TO GROW

is a question best answered by each individual for himself according to his facilities. Bulbs take up less room and may be stowed away in cellars, below benches and in many cases outside under ashes, for a great part of the time; and they take up little space in the greenhouses even when being brought into flower there. Calculating the time and space needed for production of a crop, bulbous stock is the most profitable that can be grown.

HOW TO GROW.

We do not profess to teach experienced plantmen how to grow Bulbs, yet the cultural hints on the "Forcing of Lily of Valley", "Forcing Dutch Hyacinths", "Forcing Tulips", and cultural hints on other species given in our Florists' List will, we think, be helpful to many who have not given this matter much attention. Few subjects are more easily grown than Bulbs, and a safer class of stock for the inexperienced is not to be had. Send for our Florists' List. Free to all in the trade.

JOHN GARDINER & CO., BULB GROWERS, IMPORTERS AND DEALERS, Philadelphia, Pa.



Pansy Seed.

VAUGHAN'S INTERNATIONAL MIXTURE



Put up, named and sold by us for the past four years, from the best strains direct from originators in Europe.

Our Cassier Pansy Seed is grown by M. Cassier himself at Suresne.

Our Bugnot Pansy Seed is supplied by J. Bugnot, the originator.

No other firm is authorized to offer our Vaughan's International Mixture, and those using this name to sell other mixtures, are "imitators." The genuine can be had in our packages only.

We sell **NEW CROP ONLY** as soon as it is ripened, **BUT NOT BEFORE.**

PRICES:

1'kt. 50c.; 1-8 oz. \$1.50; oz. \$10.

All Seeds for Florists.

NEW YORK: **J. C. VAUGHAN, CHICAGO.**
18 Barclay Street. P. O. BOX 688.

DESIRABLE PLANTS FOR FLORISTS

Liatris Borbonica, from 4-inch pots, per doz \$1 50.
Lilium Harrisoni, Bermuda bulbs that have been forced; strong and healthy, per 100 \$1.00.
Pandanus Utilis, large and fine, 6-inch, per doz \$5.00.
" *Veitchii*, fine plants, 50c. to \$5.00 each.
Phoenix Reclinata, from 5-inch pots, per doz \$3 50.

W. T. BELL, Franklin, Pa.

IMPROVED GLAZING.

Zinc joints for putting glass without laps. No leakage. No silding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps saves enough glass to pay for the zinc. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O.

Key to Portraits.

- 299 Geo. W. Marshall, Everett, Mass.
- 210 Geo. M. Stratton, Villa Nova, Pa.
- 211 J. L. Dillon, Bloomsburg, Pa.
- 212 C. Leslie Reynolds, Washington.
- 213 Wm. Elliott New York.
- 214 R. Maitre, New Orleans.
- 215 A. H. Lewis, North Cambridge, Mass.
- 216 B. E. Wadsworth, Danville, Ill.
- 217 C. Hermann, Frederick, Md.
- 218 Chas. F. Faust, Baltimore.
- 219 F. W. Beach, Richmond, Ind.
- 220 Wm. Feast, Baltimore.
- 221 H. A. Siebrecht, New York.
- 222 J. G. Whildin, Philadelphia.
- 223 Philip Ganach, Washington.
- 224 Antoine Wintzer, West Grove, Pa.
- 225 Paul Berkowitz, Philadelphia.
- 226 John Hart, Indianapolis, Ind.
- 227 E. Stettens, New York.
- 228 W. J. Smyth, Chicago.
- 229 D. C. Hupp, Shiremanstown, Pa.
- 230 D. B. Woodruff, Macon, Ga.
- 231 J. H. Wade, Evansville, Ind.
- 232 Theo. Roehrs, New York.
- 233 Isaac Spacht, Jerseyville, Ill.
- 234 J. W. Bitner, Lancaster, Pa.
- 235 Geo. A. Sutherland, Boston.
- 236 C. M. Wagner, Rider, Md.
- 237 E. J. Van Keyper, Belleville, N. J.
- 238 John F. Hupp, Shiremanstown, Pa.
- 239 Thomas Cartledge, Philadelphia.
- 240 Jos. E. Bouwell, Salem, O.
- 241 C. W. Reimers, Louisville, Ky.
- 242 Chas. E. DeNuth, Connelisville, Pa.
- 243 Francis H. Schaefer, Newburgh, N. Y.
- 244 H. J. Cole, Toronto, Ont.
- 245 David Cliffe, Germantown, Phila.
- 246 George Vair, Toronto, Ont.
- 247 John Young, New York.
- 248 John White, Pittsfield, Mass.
- 249 H. B. Beatty, Oil City, Pa.
- 250 Benj. Hammond, Fishkill-on-Hudson, N. Y.
- 251 Wm. Martin, Brookline, Mass.
- 252 Edw. Kress, Baltimore.
- 253 E. C. Reinegan, Allegheny, Pa.
- 254 Thos. Franks, Champaign, Ill.
- 255 Chas. D. Bell, Holmesburg, Phila.
- 256 Warren Ewell, Dorchester, Mass.
- 257 Chas. T. Siebert, Pittsburg.
- 258 C. O. Williams, Batavia, Ill.
- 259 F. M. Pennock, Kennett Square, Pa.
- 260 M. R. Saunders, Aurora, Ill.
- 261 H. L. Marlock, West Gardner, Mass.
- 262 J. E. Bolanz, Akron, O.

(See alphabetical arrangement of names elsewhere.)

Do you WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

WALTER F. SHERIDAN,

WHOLESALE FLORIST

32 West 30th Street,

NEW YORK.

Prompt attention to Shipping Orders.

PRICE LIST ON APPLICATION.



FORCING BULBS.

Our New York warehouse at 12 Barclay Street, has been arranged with special reference to the safe storage and quick despatch of this stock. The record we may fairly claim to have made on "Florists Bulbs in Season" by special importation of each article as it ripened, is admittedly a leading one. We hope by the added facilities provided by our **NEW YORK STORE** to save to our customers every possible margin in freight and every possible hour in time.

We have made these additional arrangements to "get there", and invite your inspection, patronage and correspondence.

J. C. VAUGHAN,

12 Barclay Street, **NEW YORK.**P. O. Box 688, **CHICAGO.**

ROSES.

Perle Niphetos, Albany, La France.
2-inch \$3.50, 2½-inch \$5.00; 3-inch \$7.60.
Mermel, 2-inch \$2.75; 3-inch \$5.00.

Carnations, Fine stock. Field grown.
Cyclamen, Violets, Deutzias, Pelargonium, Fred Dorner. Write for prices.
JOSEPH HEINL, Jacksonville, Ill.

CARNATIONS

Field grown plants of all the leading varieties ready for delivery about Sept. 25th.

Tuberose Bulbs with the thousand.

Prices on application.
CHAS. T. STARR, Avondale, Chester Co., Pa.

Key to Portraits.

- 293 J. H. Dunlop, Toronto, Ont.
- 294 W. J. Harris, Portsmouth, Va.
- 295 C. J. Sanfo d, Unionville, Conn.
- 296 John Barclay, Philadelphia
- 297 A. Lincoln Brown, Philadelphia
- 298 W. C. Krick, Brooklyn, N. Y.
- 299 John J. Connelley, Bryn Mawr, Pa.
- 300 F. La Roche, Philadelphia
- 301 B. Stahl, Philadelphia
- 302 E. B. Reals, Greentield, Mass.
- 303 A. H. Ewing, Toronto, Ont.
- 304 E. Haentel, Fond du Lac, Wis.
- 305 Frank L. Mace, Chatham, N. J.
- 306 A. Koehler, Jr., Philadelphia
- 307 Frank D. Hunter, New York.
- 308 John Lane, Chicago
- 309 Thos. Maybury, Pittsburg.
- 310 Jas. H. Morton, Boston
- 311 H. Dale, Brampton, Ont.
- 312 E. A. Michel, St. Louis
- 313 Harbert G. Walker, Louisville, Ky.
- 314 James D. Ferris, Kinross, N. Y.
- 315 Paul Marchard, South Manchester, N. Y.
- 316 James Arnold Penman, New York.
- 317 William Griffin, Lenox, Mass.
- 318 C. F. Wood, Richmond, Va.
- 319 Walter S. Kenna, Sioux City, Ia.
- 320 H. F. A. James, Worcester, Mass.
- 321 D. McGilvray, Brattleboro, Vt.
- 322 W. B. Virnison, Petersburg, Va.
- 323 C. H. Joosten, New York
- 324 John Hobson, Norwyrden, Pa.
- 325 Joe Bennett, Montreal
- 326 A. N. Pierson, Cromwell, Conn.
- 327 E. W. Guy, Belleville, Ill.
- 328 J. T. Temple, Asenport, Iowa
- 329 H. D. Seale, Warsaw, Ind.
- 330 James Morton, Clarksville, Tenn.
- 331 R. D. Hoyt, Seven Oaks, Pa.
- 332 C. Thompson Adams, West Medway, Mass.
- 333 B. Schram, Toledo, O.
- 334 W. A. Ekas, Baltimore
- 335 J. G. Burrow, Fishkill, N. Y.
- 336 Thos. Griffin, Westbury Sta., N. Y.
- 337 Julius Roehrs, Carlton Hill, N. J.
- 338 B. H. Eels, Laredo, Texas
- 339 Thos. Butler, Chestnut Hill, Phila
- 340 John Retermann, Indianapolis, Ind.
- 341 Joseph Renard, Unionville, Pa.
- 342 C. E. Brinton, Wilmington, Del.
- 343 S. Kehrman, Jr., St. Louis
- 344 Edw. H. Hitchings, New York
- 345 F. C. Foster, Hampton, Ont.
- 346 R. C. Patterson, Pittsburg
- 347 Edw. J. Welch, Boston
- 348 A. Blanc, Philadelphia
- 349 C. J. Pennock, Kennett Square, Pa.
- 350 Walter Heas, Asheville, W. C.
- 351 J. Palmer Gordon, Asbland, Va.
- 352 A. J. Lovel, W. Weatherfield, Conn.
- 353 A. G. Brown, Springfield, Ill.
- 354 J. L. Warner, Lutherville, Md.

[see alphabetical arrangement of names elsewhere]

IF YOU GROW CARNATIONS GROW THE BEST VARETETES.

Dorner's Seedlings are the Best,

for they produce the largest flowers, on the longest and strongest stems, and sell for the **HIGHEST MARKET PRICES.** They are vigorous, healthy growers, and produce continuous blooms.

Price, \$10.00 per 100; \$75.00 per 1000.

Out of 1,500 seedlings grown in 1890, 150 were selected for a second year's trial, and these ten varieties are the cream thereof. Notwithstanding having had the lead among the seed plants, their second year blooming showing a great improvement.

MRS. ELIZABETH REYNOLDS—Bright pink, very large, seldom less than 3 inches; sweet scented.

MME. DIAZ ALBERTINI—Soft flesh pink, large, very strong; clove-scented.

RICHMOND—Bright glowing carmine. Of this variety Mr. John Thorpe says: "The Richmond is A No. 1; it coming near, very near to my ideal, 3½ inch diameter, 26 inch stem."

SPARTAN—Deep carmine with scarlet shading, large.

WILLIAM SCOTT, syn. Great Scott—Large, of a deep Grace Wilder pink.

PURDUE—Pink, globular, large and full.

DR. SMART—A peculiar pinkish cream, striped crimson.

WESTERN PRIDE—White striped bright scarlet.

WABASH—Deep brilliant crimson.

BLANCHE—Pure white, very prolific bloomer.

We will have a large, clean stock, perfectly healthy and free from rust, spot and any other disease.

READY FOR DELIVERY IN FEBRUARY, 1893.

ORDERS ENTERED NOW.

C. W. WARD, Manager,
EASTERN AGENT FOR

FRED. DORNER, of La Fayette, Ind.

**THE GOTTAGE GARDEN GREENHOUSES,
EAST MORICHES, N. Y.**



BULBS FOR FLORISTS.

The Reason Why Our business has grown to its present proportions is simply because it is conducted on business principles. We take pains to get the best stocks; we sell at a moderate profit; and give the most careful attention to every detail of the business. Our extensive knowledge of the best sources of supply in all parts of the world enables us to offer stock of unsurpassed quality, and our customers not only get reliable stock by trading with us, but they save money as well. We shall be glad to estimate at any time on your wants. Trade price list free on application.

CHOICE FLOWER SEEDS.

It's all in the Strain.

A choice strain of Cyclamen, Primula, Cineraria or other Florist's Flower is not produced by chance. Neither is excellence of quality maintained without intelligent effort and the most vigilant care. Care and intelligence must be paid for, and that explains the high cost of a choice strain of seed. With us, cost has always been a secondary consideration: quality comes first. That our customers appreciate this fact, our large and increasing trade in this line furnishes ample evidence. Trade price list free on application.



MUSHROOM

SPAWN.

A New Industry Created. We do not underestimate the great labors of the pioneers in Mushroom Culture in this country, nor the intelligent efforts of clever authors to popularize the subject; yet we may honestly claim to have been the first to practically call the attention of the commercial florist to the money-making side of the subject, and by persistent advertising, year in and year out, to so "hammer it in" that even the most skeptical has at last come to the conclusion that there may be something in it. There is. There is room for all hands to take part in supplying that ten million pounds that come over every year from France. Give the American public good mushrooms instead of these leathery, tasteless parodies, and they will soon make it twenty million. The best place for spawn you doubtless know. We are not writing this and paying the AMERICAN FLORIST hard cash for the space for fun. There's money in it for us; but there's more in it for you. Get our primer and price list, free.

JOHN GARDINER & CO., PHILADELPHIA, PA., U. S. A.

To our Friends and Patrons:

We desire through the columns of the American Florist to thank you for your esteemed patronage, and desire to call your attention to the fact that this fall we shall be in the market with a full line of "Florists' Supplies."

Our Wholesale Cut Flower Trade, which is one of the largest in the west, will be represented at Washington by Mr. E. G. Gillet, who will take great pleasure in booking your orders for our "Specialties" and Cut Flowers in general. Our Catalogue of Florists' Supplies will be ready in October, which we shall be pleased to mail on application. Again thanking you for your esteemed patronage, we remain,

Very Respectfully,

J. M. McCullough & Sons,

134 & 136 Walnut St., CINCINNATI, O.

Climbing Perle des Jardins.

Strong plants from 3-inch pots \$2 per doz.; \$12 per 100; \$100 per 1000; from 2½-inch pots \$1.50 per doz.; \$10 per 100; \$80 per 1000. Papa Contier, Brides, Mirmels. Meleor, from 2½-inch pots \$6 per 100; \$50 per 1000. Monthly Pelarg. Fred Dorner, from 2½-inch pots, \$8 per 100.

CYCAS REVOLUTA.

Sago Palms, the finest stock in the country, all sizes, with fine stems and foliage, ranging in price from 50 cents to \$10.00 each. Address

JOHN G. HEINL,
TERRE HAUTE, IND.

Always mention the AMERICAN FLORIST when writing to advertisers.

Key to Portraits.

- 325 Mrs. J. A. Dirwanger, Portland, Me.
326 Mrs. H. W. Mendenhall, Minneapolis, Minn.
327 Mrs. H. W. Buckbee, Rockford Ill.
328 Miss Hannah E. Dudley, Beth. N. Y.
329 Mrs. Geo. Gordon, Milwaukee, Wis.
330 Mrs. W. A. Rock, North Amherst, Mass.
331 Mrs. Henry Bender, Wilmington, N. C.
332 Mrs. G. L. Grant, Chicago.
333 Mrs. E. A. Leamy, Devon, Pa.
334 Mrs. C. R. Whitnall, Milwaukee, Wis.
335 Mrs. I. H. Cooley, Manchester, O.
336 Mrs. Thos. Maybury, Pittsburg.
337 Mrs. A. Krueger, Mendville, Pa.
338 Mrs. Walter Helms, Janesville, Wis.
339 Mrs. Fred Schneider, Attica, N. Y.
340 Mrs. Anna B. Nickels, Laredo, Texas.
341 Mrs. G. W. Marshall, Everett, Mass. (331 through error on part of engraver).
342 Mrs. Sam'l Henshaw, W. Brighton, N. Y.
343 Mrs. W. R. Davison, Nyack, N. Y.
344 Mrs. J. W. Dayhoff, Hagerstown, Md.

HARDY TWO YEAR OWN ROOT ROSES.

From open ground. Price, plants two to four feet high,

OUR SELECTION, - \$100 per 1000
BUYERS " - 120 "
CLIMBING ROSES, - 80 "

TREE CINNAMON STOCKS. HARDY SORTS. ROSES.

A VERY FINE LOT, INCLUDING THE BEST HARDY SORTS.

PRICE, plants from open ground, ready for shipment Oct. 1st, \$100 per 100. Plants in 10-inch pots, for immediate shipment, \$15.00 per dozen.

Address W. S. LITTLE & CO.,
COMMERCIAL NURSERIES, Rochester, N. Y.

NEW YELLOW CANNA

FOR 1893.

NELLIE BOWDEN,
PURE YELLOW.

Liberal terms to Catalogue men.

PANSIES

from best strains, August delivery and later,
75c. per 100; \$5 00 per 1000, by mail.

JOHN MCGOWAN,
ORANGE, N. J.

PANSIES.

THE JENNINGS STRAIN OF PANSIES ARE IN BIG DEMAND.

Seed by the paper or ounce. Plants ready last of August, in any quantity you want. 60 cts. by mail, \$5.00, thousand by express.

CARNATIONS

20,000 fine field grown plants, ready in September, in variety, stock is extra fine, also 5,000 MARIE LOUISE VIOLETS.

Address,
E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER. ■
SOUTHPORT, CONN. Lock Box 254.



EVERY VISITOR

To the Convention who stops at New York on his way from or to his home is
RESPECTFULLY INVITED to call at our stores **136 and 138 W. 24th Street,**
 and examine our full line of

Novelties for 1892,

JUST ARRIVED.

AUGUST RÖLKER & SONS.

EDWARD C. HORAN,
WHOLESALE FLORIST,

Not the Oldest or Largest, but the most Successful
 Shipping House in the business.

34 West 29th Streets, NEW YORK.

Growing Forcing Bulbs in the South.

I have read with much interest Mr. Allen's article on page 1174, because during a recent trip through the same range of temperature in Georgia the possibilities of bulb culture were made evident. The "Piedmont ridge" meets the conditions, and on that ridge in Georgia, both in the northern and central portions, are locations which only need development. All bulbous plants seem to grow marvelously well and in that favored region, with its long season, low average summer temperature and light winter frosts, I fully believe bulb culture could be made most profitable. The land can be had at from \$5 to \$25 per acre—the land-poor cotton growers are glad to reduce their acreages—and the common labor is good, abundant and cheap. The climate is fit for anyone to live in, too; the cool nights in summer make one happy.

I have wondered why someone has not taken his Crozy cannas down to Georgia to get up stock; they grow there wonderfully. And caladiums—well, I won't start any fish stories. The possibilities of these undeveloped southern states, under careful and thrifty horticultural handling, are beyond estimate. I hope to hear of a trial as to "Dutch" bulbs.

J. HORACE MCFARLAND.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Cyclamens.

Strong plants for potting on.

\$7.00 PER 100
\$60.00 PER 1000

DAVID ALLAN,
MT. AUBURN, MASS.

3000 JACQUEMINOT ROSES.

from 3 in. pots, \$5 per 100; 4 in. pots, \$6 per 100.
2,000 Begonia Rex from 3 in. pots, \$5 per 100.
3,000 English Ixias from 4 in. pots, 20¢ high, \$1 per 100.
5,000 English Ixias, same size, lifted from open ground, \$3 per 100.
10,000 Violets, Marie Louise, strong June cuttings, rooted out door, positively no disease, \$2 per 100.
2,000 Boverardia Daryidsonii and Alfred Nemer, from 3 in. pots, \$5 per 100.
500 pots of Aconis variegata, strong plants, fine for trimming in funeral work, \$10 per 100. All guaranteed to be vigorous and healthy. Will exchange on reasonable terms for thrifty young stock of Bon Silence Roses.

JOHN RECK, Bridgeport, Conn.
When ordering mention AMERICAN FLORIST.
Mention American Florist.



CROZY CANNAS.

We are very nearly HEADQUARTERS for these new and popular plants.

Our New
"SPECIAL CANNA LIST"
will offer besides all the standard new kinds, several

CROZY NOVELTIES

owned and entirely controlled by us.

As we said before "they will Make Money Faster for you than any other class of plants."

NEW YORK: 12 Barclay Street. J. C. VAUGHAN, CHICAGO. P. O. Box 688.

GEO. MULLEN,
WHOLESALE & COMMISSION DEALER

FRESH CUT FLOWERS AND FLORISTS' SUPPLIES,

17 Chapman Place, - BOSTON, MASS.

Off School St., opposite City Hall.

Orders by Mail, Telephone, Telegraph or Express promptly filled.

Samuel S. Pennock,

* WHOLESALE *

FLORIST,

38 South Sixteenth Street,

PHILADELPHIA, PA.

Seeds, Plants, Bulbs,

Wholesale and Retail

THE MCGULLOUGH SEED CO.,

385 Main St., CINCINNATI O.

Water Hyacinths.....\$6.00 per 100
Cooperia Pedunculata..... 3.00 per 100
Zephyranthes Andersoni Texana \$1.50 " 100
Crozy's French Cannas, mixed, \$1.00 " doz

Fall or Spring Delivery.

MISS LIZZIE FREEMAN.
1203 East Avenue, AUSTIN, TEXAS.

CAMPHOR TREES.

LAURUS CAMPHORUS is without a doubt one of the best evergreen trees, quite hardy in all Southern States; the best shade trees that can be used for street planting in city suburbs. Can be as nicely shaped as its near relative, the Sweet Bay (L. nobilis), and quite as useful in plant decorations.

In 3 inch pots, per hundred, - \$20.00.
Larger plants in 16-inch tubs, each, \$175.

Cactus Cereus Grandiflorus.

Best stool to graft the Crab-Claw Cactus Ephyllum truncatus on. Pieces in 11-inch lengths, per hundred \$5.00.

Address R. MAITRE, Florist,

"HOME OF FLOWERS,"

St. Charles Ave. and Clinton St.,

NEW ORLEANS, LA.

Mention American Florist

GEO. H. BENEDICT,
WHOLESALE FLORIST

ESTABLISHED 1881.

23 greenhouses, 50,000 square ft. of glass; grower of Roses, Smilax and Violets. Telegraph and contract orders receive my special attention.

YORKVILLE GREENHOUSES YORKVILLE, N. Y.

FOR SALE.

Two greenhouses, 1 span, 100x50 ft. each, with plants. North side propagating house attached, 10x50. Heated by hot water, (Garney Boiler.) Four miles from San Francisco, Cal. Electric cars pass door, 3 minutes from R. K. station. Long lease of land, for particulars, address,

FLORIST, 1441 POLK ST.,
SAN FRANCISCO, CAL.

Always mention the AMERICAN FLORIST when writing to advertisers

KENNICOTT BROS.,

WHOLESALE

CUT FLOWERS,

34 & 36 Randolph St., CHICAGO.

Largest wholesale cut flower establishment in the west. The very best facilities for handling cut flowers so as to reach customers in perfect condition.

WIRE WORK A SPECIALTY.

FLORISTS VISITING CHICAGO are cordially invited to make our establishment their headquarters while in the city.

BIG! BIG! BIG!

BIG WHAT?

Big Daisy Snow Crest.

BIG plants, BIG roots, BIG eaves, BIG long stems, BIG flowers, BIG crop, BIG sales, BIG profits, BIG satisfaction all round. There will be a BIG lot wanted. Order early and get a BIG start and help supply the BIG demand. 25,000 now on hand, \$1.50 per doz.; \$40 per 100; \$80 per 1000.

200,000 would scarcely suffice to supply all who ought to have it with a few plants to start with. Remember when we are sold out we are done, there has been no substitute found yet for this Daisy. SNOW-FLAKE, good as it is, can not compare with it. A few hundred of the latter still on hand, \$1.50 per 100; \$12.00 per 1000.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Asparagus Plumosus

FRONDS.

12 to 36-inch, delivery now or later, offered for sale by the thousands.

GEORGE WAGNER,
SAVANNAH, GA.

Mr. A. C. Oelschig will take orders at the Convention.

Headquarters for Carnations.

We will have 50,000 square ft. of glass this winter devoted to growing the following carnations.

Our Introduction:

Florence Van Ruyper, White; Ruth Churchill, Crimson.

And a Large Stock of

Daybreak, Lizzie McGowan, Attraction, Mrs. Robert Pitt, Ben Hur, White Dove, Mrs. Pawcett, Golden Triumph, Thos. Cartledge, Pearl, Grace Darling, Aurora, Dorinda, Buttercup, Golden Gates, Schaffer, Lady Chatham, Tidal Wave, American Flag, Lamborn, Century, Amy Phipps, Peachblow Coronet, Crimson Coronet, La Creme, Christmas, Chester Pride, Portia, Lady Emma, Fred Creighton, Wm. F. Dreer, G. C. Tyler, Nellie Lewis, Clara Mawer, Ohio, Hector, J. J. Harrison, Edelweiss, White Wings, John McCullough, Hinze's White, Mrs. F. Mangold, Columbia, Tendresse, Grace Wilder, Alexandria, May Flower, White Grace Wilder, Ferdinand Mangold, Hinsdale, Dawn, Snow Bird, Orange Blossom, Louise Porsch, Pride of Kennett, Silver Spray, May Queen, Mrs. Fisher, Brilliant, Grace Fardon, Consistency, Anna Webb, Orient, Garfield, J. R. Freeman.

We will have a large stock of Rooted Cuttings of the above, and having increased our propagating facilities to four houses, each 10x100 feet, we feel assured that we will be able to fill all orders promptly and satisfactorily.

ESSEX HEIGHTS FLORAL CO., Be'leville, N. J.

Palms and Ficus Elastica

Well grown at reasonable figures.

NATIVE • DECORATIVE GOODS.

Cane Stakes for Greenhouse Use.

A. C. OELSCHIG.

SAVANNAH, GA.

Goodyear Rubber Co.

GEO. GLAPP, Agent.

ALL GRADES RUBBER HOSE,
Including our Celebrated
GOLD SEAL, SUPERIOR A1,
EXTRA QUALITY A1,
STANDARD, ETC.

Large assortment of Couplings, Pipes and Sprinklers.

Write for Discounts.

141 Lake Street, CHICAGO.

EVERY DESCRIPTION RUBBER GOODS.

A FINE LINE OF
ROD N & GRUB McINTOSH GARMENTS

ROSES FOR PLANTING.

FINE HEALTHY STOCK, NONE BETTER.

Pertes, Sunset, Hoste, Mermet, Bride, Waban, Albany, La France, Beauty, Niphetos and Mme. P. Guillot,

from 3 and 3½ in., latter equal to 4 inches, Also fine CHRYSANTHEMUMS, 2½, best varieties.

Write for prices. QUALITY our motto.

BROWN & CANFIELD,

SPRINGFIELD, ILL.

Has Invented a Process.

A florist in California claims that he has invented a process whereby cut flowers can be kept in a perfect condition for thirty days without placing their stems in water. He states that he has sent them to Utah and Wyoming, and that he intends in another year to send them to Chicago, St. Louis and Cincinnati. Eventually he expects to supply the flower merchants of the Atlantic cities. He declares that flowers can be raised so cheaply in California that he can, by his process, undersell florists in other parts of the country where the climate is less favorable. If his statements are true it seems certain that the greenhouse will soon be a thing of the past. Glass and steam heat are costly, and the rates for transportation are low.—*Daily Press.*

How delightful! And how curious that in the favored region where these flowers are to be produced it is found necessary to grow roses in greenhouses in order to get really first class flowers, outside of a week or so in spring, when the east also has a surplus of fine stock. Some curious ideas get into the head of the reporter out after items.

If you have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Washington in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it.

HEADQUARTERS FOR GRASS SEEDS

Re cleaner of Kentucky Blue Grass,
Red Top, Orchard Grass, Clover
and Timothy.

Write for prices.

J. CHAS. McCULLOUGH,

N. E. Cor. 2nd & Walnut Streets, CINCINNATI, O.

Mention American Florist.

The New Pink Rose of

SUNNYWOODS

Is the Mermet's

RIVAL.

And has come

to stay.

Address

FRANK L. MOORE,

Chatham, New Jersey.

(Four-inch Plants: \$25.00 per 100)

FICUS ELASTICA.

Extra strong plants, 6-inch pots, \$50.00 per 100

WM. WARNER HARPER, ANDORRA NURSERIES,

MANAGER.

CHESTNUT HILL, PHILADELPHIA, PA

— — — * THE * — — —

“MAY HANDY”



VIOLET



Is the best of all Violets. Free from spot.
Strong grower.

Sample blooms will be sent to all who wish to see it next winter.

PLANTS FOR SALE APRIL 1, '93.

W. A. Hammond,

RICHMOND, VIRGINIA.



THE ROSE HILL NURSERIES

Are now ready for Fall Shipping.

The largest and most complete stock of **PALMS, ORCHIDS, STOVE and GREENHOUSE PLANTS.**



OUR SPECIALTIES.

100,000 Palms, ready for decorating purposes. Clean healthy stock, viz:

Areca lutescens,
Latania borbonica,
Kentia Belmoreana,
K. Forsteriana,
Caryota urens,
C. Sobolifera,
Rhapis flabelliformis,
R. humilis,
Phoenix rupicola,
P. reclinata.

The finest collection of Winter blooming **ORCHIDS**, in excellent condition, in almost every size and variety. *Cattleyas*, *Celogynes*, *Cypripediums*, *Dendrobiums*, *Odontoglossums*, *Oncidiums*, and many other varieties.

Stove and Foliage Plants; of these we have the largest and greatest variety, all well grown and ready for use. Specialties:

Dracaenas, *Crotons*, *Dieffenbachias*, *Alocasias*, *Marantas*, *Pandanus*, *Anthuriums*.

Ferns. Our stock is unsurpassed. *Adiantum Farleyense*; the largest and finest stock known; perfect plants in sizes. *Adiantums*, *Nephrolepis*, *Pteris*, *Gymnogramme*, and all other varieties.

Lilium Harrisii, the true Bermuda Lily in all sizes, well ripened bulbs, ready for shipment. All other bulbs for forcing.

Azaleas, *Rhododendrons*, well set in bud for forcing.

Tuberous Begonias, named and seedlings.

Gloxinias, finest strain.

Cycas Leaves may be had at short notice, all sizes.

Before ordering elsewhere, compare our stock and price with other firms. Send for sample order. No charge for packing; all orders F. O. B. Address all orders to

SIEBRECHT & WADLEY,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Send for Midsummer and Fall Price List.

Chairmen of Committees of the National Gardeners' Club of Washington for S. A. F. Convention.

Reception—W. R. Smith, U. S. Botanic Garden.

Executive—Benj. Darfee, 905 F street.
Exhibition—C. F. Hale, 719 14th St.
Hotel—J. R. Freeman, 612 13th St.
Entertainment—W. S. Clark, Bladenburg Road.
Badge—W. H. King, Wenthorpe Heights D. C.

Bowling—J. R. Freeman, 612 13th St.
Decoration—J. H. Ley, Anacostia, D. C.
Advertising—C. F. Hale, 719 14th St.
Bureau of Information—C. Leslie Reynolds, 1718 1/2 10th St., N. W.

WM. K. HARRIS.

PROPRIETOR OF THE

HOME OF SPECIALTIES.

5501 Woodland Avenue. PHILADELPHIA, PA.

FICUS ELASTICA

is one of a number of specialties we grow with unusual success. There is no place in this country where the rubber is grown so fine and into so many shapes and styles as here. We will have a collection of the various forms on exhibition at Washington during the convention of the American Florists. Plants from two to seven feet high, after several sizes, grown into tree shape which is the most beautiful of any form.

The untrained rubber, many feet skyward, takes its lofty flight
When fostered by skillful care, she displays beauty instead of might.
In thy erect, majestic form, some would have the dwarf, others tall,
But when grown into miniature trees then thy beauty pleases all.

by the hand of the
KINCSESSING NURSERIES.

WANTED—Sheboygan, Wis. is in need of a first-class floral establishment. There is full information, address FRANK, care American Florist.

IRVINGTON Nursery and Bulb Farm,

IRVINGTON, Marion Co., IND.

(Near Indianaapolis).

Lucretia Dewberry, 2 years, fine, \$12.00 per 1000.
Raspberries, Blackberries, Strawberries, all leading varieties, a good stock.

Sugar Maple seedlings, 1 to 1 1/2 ft., \$5 per 1000.
10,000 Carolina Poplar, nice, smooth, well headed trees, 8 to 15 feet, 1 to 2 inch caliper.
1,000 Bolleaux Poplar, 4 to 10 feet.
Clethra Alnifolia, 1 to 2 feet, transplanted.
Spiraea Van Houttei, 3 to 4 feet, by tray.
Cinnamon Vine, 2 years, \$5 per 100.
Hardy Moon Flower, transplanted.
Belgian Honey-suckle, transplanted.
Wistaria Magnifica, 2 to 4 years, 3c to 5c.
20,000 Hyacinthus Caeruleus, 1, 2 and 3 years, \$3 to \$8 per 1000.

1,000 Double Hemerocallis, 4c.
2,000 Hemerocallis Flava (Yellow Day Lily), 4c.
25,000 Double Tiger Lily, \$10, \$15, \$20 per 1000; all blooming by 1st.

" " " fine mixed sorts.
5,000 Montroseas in 5 name named sorts.
Herbaceous Pionies in 25 fine named kinds, 15c.

50,000 Lencoum's Hybrid Gladiolus in 25 choice named kinds.
10,000 Gladiolus Porphyra Auratus.
3,000 Gladiolus Sandersoni.

SEND FOR FALL LIST.

Only 30 minutes ride by Electric street car from Indianapolis Union Depot.

E. Y. TEAS, Manager.

Mention American Florist.

20,000 Palms and Dracænas

	In. pots.	In. high.	Per 10.	Per 100.
Areca Sapida	2 1/2	5 to 6	\$1 10	\$10 00
Corypha Australis	2 1/2	5 to 6	75	6 00
"	3	8 to 10	1 00	9 00
"	4	10 to 12	2 50	
Chamærops Excelsa	2 1/2	6 to 7	50	4 50
"	3	6 to 8	90	8 00
"	4	10 to 12	2 50	
Lafania Borbonica	2 1/2	6 to 8	69	5 00
Phoenix Canariensis	3	12 to 15	1 40	
"	4	15 to 18	4 00	
"	2 1/2	8 to 10	1 00	
Reclinata	3	10 to 12	1 40	
Dracæna Indivisa	2 1/2	12 to 15	45	4 00
"	3	15 to 18	90	8 00
"	4	20 to 25	1 30	12 00
"	5			18 00
Veitchii	2 1/2	12 to 15	45	4 00
"	3	15 to 18	90	8 00
"	4	20 to 24	1 30	12 00
"	5			18 00
Draco	3	6 to 8	1 00	9 00
"	4	8 to 10	1 40	
Terminalis	3	10 to 12	1 25	
"	4	12 to 15	1 75	

For larger specimens and general collection send for Wholesale List and Descriptive Catalogue.

ADDRESS **W. J. HESSER, Plattsmouth, Neb.**

Mention American Florist.

ROSES. ROSES. ROSES.

We have a few thousand of the best forcing varieties left; strong stock in 3 and 4-inch pots at \$7 and \$9 per 100.

100 of the best new and old varieties of Chrysanthemums, 2 1/2-inch \$3 per 100; 4-inch \$7 per 100.

Bouvardia (6 best varieties) 2 1/2-inch, \$4 per 100.

Hydrangeas (4 best varieties) 2 1/2-inch, \$4 per 100.

Adiantum Cuneatum, 2 1/2-inch \$5 per 100; 3-inch \$8 per 100.

Grevillea Robusta, 4-inch \$8 per 100. Large stock of all kinds of Greenhouse Plants. Low prices.

Henry Smith,
130 Monroe St., Grand Rapids, Mich.

EVERGREEN CUT FERNS.

Especially for Florists' Use.

\$1.25 per 1,000 Ferns.

Discount on large orders. Special attention paid to supplying the Wholesale Trade. Write for prices.

BOUQUET GREEN or \$5.00 per 100 pounds.
for Holiday Trade, \$2.00 per barrel (30 pounds);

SPAGNUM MOSS a specialty. Long, clean fibre, dry or green, \$1.00 per barrel, or 6 barrels for \$5.00. Write for terms on large lots.

CHRISTMAS TREES—American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying curdled lots. Write for price list and terms.

City Stand During the Holidays:

47th St. and Lexington Ave., NEW YORK.

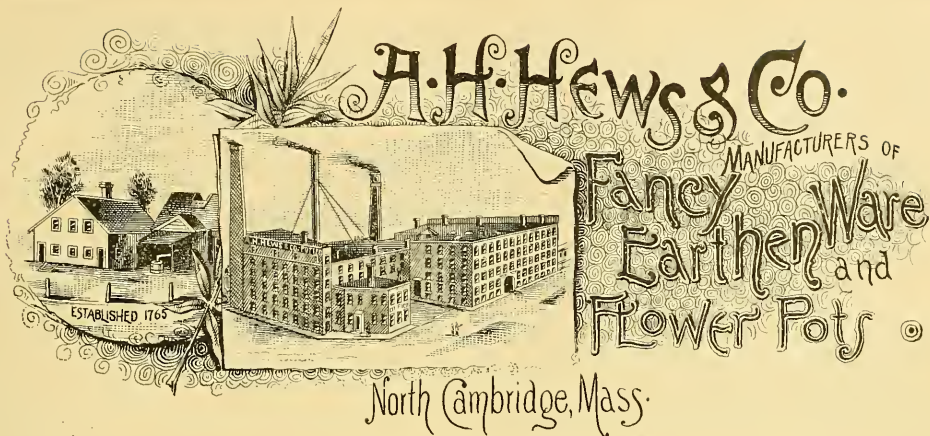
L. B. BRAGUE, Hinsdale, Mass.

FIELD GROWN CARNATION PLANTS.

We will be pleased to correspond with parties needing Carnations for **WINTER FORCING**. We have over 50,000 planted out, and we believe they are not surpassed in quality.

J. L. DILLON, - BLOOMSBURG, PA.

Mention American Florist.



We are manufacturing a car load of **STANDARD FLOWER POTS** daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.

JUST WHAT YOU WANT.

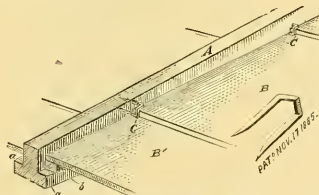
STOP YOUR GLASS FROM SLIDING BY USING

E. J. VAN REYPER'S PERFECT GLAZIERS' POINTS.

Endorsed by leading florists. Try them and you will use no other.

Made of Steel Wire and Galvanized.
No Rights and Lefts.

OVER 8,000,000 IN USE.



For sale by all Seedsman, Hardware Dealers and Florists' Supply stores throughout the United States. If you fail to procure them, send direct to

ESSEX HEIGHTS FLORAL CO.,

BELLEVILLE, NEW JERSEY.



On these products there is no discounting their value. They ARE USED BY FLORISTS AND SOLD BY SEEDSMEN. For pamphlet, address

B. HAMMOND, Fishkill-on-Hudson, N. Y.

Washington Hotels.

Below are given the names and locations of the hotels with which rates have been made by the local committee for convention week, together with the rate per day secured:

Made's, cor. 3d street and Penna. avenue, N. W., American, \$2.

Belvedere, N. W. cor. 3rd street and Penna. avenue, American, \$2; European \$1 and upward.

Renter's, 4½ street and Penna. avenue, American, \$2; European, \$1.

Meyer's, 470 Penna. avenue, N. W., American, \$2; European, 75 cents.

Metropolitan, Penna. avenue, bet. 6th and 7th Sts., special rate, American, \$3. Ebbitt, cor. 14th and F streets, special rate, \$3, no charge for parlors.

St. James, cor. 6th street and Penna. avenue, N. W., European, \$1 to \$3.

Howard House, cor. 6th street and Penna. avenue, special rate, \$2.

Randall, S. E. cor. 15th street and Penna. avenue, American, \$2.50.

Riggs, cor. 15th and G streets, N. W., American, \$3.

Arlington, Vermont avenue and H St. N. W., special, \$4.

Welcker's, 15th street near Penna. avenue, N. W., American, \$3; European, \$1.

Hotel Johnson, cor. 13th and E streets, N. W., European, \$1 to \$2.50 each.

Willard's, cor. 14th street and Penna. avenue, American, \$3 and upward.

American House, cor. 7th street and Penna. avenue, American, \$2.

Cochran, cor. 14th and K streets, N. W., American, \$3.

Normandie, cor. 15th and I streets, N. W. Special, \$3.50.

Oxford, cor. 14th street and New York avenue. Special, \$2.50.

Hillman House, North Capitol street, bet. B and C streets, N. E., \$2 and upward.

National, cor. 6th street and Penna. avenue, American, \$2.50; European, \$1.

Hotel Arno, 16th street between H and I streets, N. W., American, \$3.

CHAS. T. SIEBERT,

OF PITTSBURG, PA.,



Grows and Sells

PLANTS
THAT PAY.

A few thousand thrifty young Roses, 3-in. at \$6.00 per 100.

CHEAP FOR CASH.

LA FRANCE, SOUV. DE WOOTTON,
PERLE, C. MERMET,
NIPHETOS, MME. HOSTE.

Palms, Areca Lutescens, seedling out of flats.	\$ 5.00
" " 2½-inch strong....	8.00
" " 3-inch ".....	15.00
" Ptychosperma Alexandrea, 3-in. strong	10.00
" Washingtonia Filifera, 3½-in. strong.	6.10
Pandanus 1½-in. strong.....	12.00
" Vetchil, 3 and 4-inch.....	25.00 to 50.00
Adiantum Cuneatum, 3-inch, str. lg.....	8.00
Ilydianthus, Red Branched, 2 and 3-inch.....	4.00
" White Fringed, 2 and 3-inch.....	4.00
" Otaka and Thos. Hogg, 2 and 3-in. 4 to 6.00	

CARNATIONS.

Field grown, ton best forcing sorts, ready Sept. 1st, before buying elsewhere send for prices by 100 and 1000.

HYDRANGEA: Otaka, Thos. Hogg, White Fringed and Kosen, strong plants in 3 and 4-inch pots, cheap.

PAUL BUTZ & SON, New Castle, Pa.

No visitor to the convention should fail to see John McGowan's new method of distributing liquid manure.

LOCKLAND LUMBER CO.



A POINT OR TWO.

POINT 1.—We have been long and favorably known to florists, as the introducers of cypress lumber for greenhouse work, having exhibited the same at every convention.

POINT 2.—We have worked Cypress extensively for several years, and experience has taught us what our competitors have yet to learn.

POINT 3.—Our text has been "CLEAR CYPRESS" from the word go, and we still furnish that grade. Nothing else at any price.

POINT 4.—A business experience of twenty-three years in one place, with a clear record, makes it safe for you to trust your orders with us. Ask your friends who have had dealings with us what kind of people we are.

POINT 5.—Our facilities are large and first class in every way. Our stock of cypress generally consists of from thirty to forty cars of open air dried lumber, and when difficult to obtain what you desire, elsewhere, we can generally be depended upon to furnish it.

POINT 6.—We have but one price, and it is as low as consistent with good material. Many of our customers send us their orders, leaving us to make a satisfactory price. Something cannot be had for nothing.

FINALLY.—We are headquarters for CLEAR CYPRESS LUMBER. Send us your orders, and you will be fairly treated. We furnish detail drawings where necessary.

Address **LOCKLAND LUMBER CO.,**
LOCKLAND, OHIO.

ANNOUNCEMENT.

Owing to pressure of business, our manager, Mr. Stearns, will probably not attend the convention, but will do so if possible.

Mention American Florist.

At the S. A. F. Convention in Washington do not fail to inspect

THE MAGAZINE BELLOWS,

The **BEST BELLOWS EVER OFFERED** for distribution of Plant and insect powders, also,
FOSTITE,

Successfully applied in Europe as a cure for mildew and Black Rot on plants, fruits and vegetables and insect destroyer.

C. H. JOOSTEN,

Importer of Bulbs and Plants.

3 Coenties Slip.

NEW YORK.

ESTABLISHED

1866.

FLORISTS

WIRE

DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.

FORCING ROSES.

Leading sorts, 3 and 4-inch pots.

A. S. MacBEAN, Lakewood, New Jersey.

Please mention the American Florist every time you write any of the advertisers on this page.



CERTIFICATE OF MERIT AWARDED
To *Whilldin Pottery Co.*
BY THE
AMERICAN FLORISTS
AT *Boston Mass August 19th-22^d* 1890
FOR *Standard Flower Pots*

J. M. Jordan. President. *Wm. J. Stewart* Secretary.

**W. C. KRICK'S**

PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.

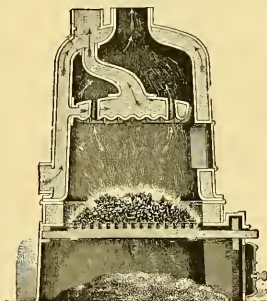
These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents: J. C. VAUGHAN, Chicago, ILL.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEPPENS, N. Y.; A. O. ROLLER & SONS, N. Y.; ED. S. SCHMIDT, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMONS, Toronto, Ont.

A full line of Samples at the Convention.

**JOHN A. SCOLLAY,**

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of
**HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.**

¹² Estimates of cost given, and Illustrated Catalogue furnished on application.

SHADE TREES.

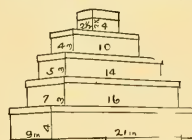
I have a fine stock of Pea's Apples, Cherries, Quinces, Small Fruits, 30 kinds of Grapes.

8,000 Elms, Norway and Sugar Maples, 8 to 16 ft.
10,000 Norway, Blue Spruce and Arbor Vite, 2 to 10 ft.
1,000 Scotch and Austrian Pines, 2 to 10 ft.
1,500 Purple leaved Beech, 3 to 7 ft.
700 Horse Chestnut, 6 to 12 ft.
500 Blood leaved Maples, 4 to 6 ft.
700 Birch, English and Cut leaved, 6 to 12 ft.
500 Oaks, four kinds, 6 to 10 ft.
2,000 White Fringes, 3 to 6 ft.
1,000 Tree Paeonies, extra strong.
5,000 Cui. Privet, 2 to 4 ft.

Best of facilities for Shipping—two Railroads and Sound Steamers to New York.
Call on or address

NORWICH NURSERIES,

Stephen Crane, Prop. NORWICH, CONN.
Established 1870.

Paper Boxes FOR FLORISTS.

All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,

212 & 214 E. Randolph Street, CHICAGO.



RUN NO RISK IN FUMIGATING
GET AN

Excelsior Fumigator

Effective, safe and convenient.
No florist will be without one after a trial. Send for explanatory illustrated circular.

HERM. PERLICH,

Florist and Seedsman,

606 S. Broadway, BALTIMORE, MD.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the **AMERICAN FLORIST.**

Entertainment Program.

TUESDAY, AUG. 16.—Between sessions arrangements will be made for visiting the National Museum, Smithsonian Institute, Agricultural Museum and grounds, Bureau of Engraving and Printing, Washington Monument and grounds; in the evening a musicale at the hall. Refreshments will be served after the musical entertainment.

WEDNESDAY.—We will visit the White House and grounds, State, War and Navy Departments after the morning session of the society and while on the way to the reception named below. In the afternoon a reception will be held at Hon. John McLean's Park. It is the earnest desire of the club that every member of the Society of American Florists attend this reception, that they may have an opportunity of an introduction to each other and become more intimately acquainted.

THURSDAY.—A visit to U. S. Botanic Gardens and the Capitol. Arrangements have been made to have a photograph of the society taken with the Capitol some distance in the background.

FRIDAY.—The morning will be devoted to a trip down the Potomac to Mount Vernon, the tomb of Washington and his old homestead. The afternoon will be devoted to the Bowling Clubs.

WE ARE GROWING

Pearl Tuberoses, Caladium Esculentum, French Cannas, Eulalia Japonica and E. Zebrina for fall delivery; and can furnish at reasonable prices at any time. Fanciful Bulbs, Dionaea Muscipula Sarracenia, or any bog plants.

Hope to meet and greet the brethren at the convention.

SUNNYSIDE (Floral) NURSERY,

James M. Lamb, Prop. Fayetteville, N. C.

J. M. THORBURN & CO.,

15 JOHN ST., NEW YORK,

IMPORTERS OF

DUTCH AND FRENCH BULBOUS ROOTS,

HYACINTHS, TULIPS, DAFFODILS, LILY of the VALLEY
PIPS, AURATUM LILIES, TUBEROSES, and EVERY-
THING IN BULBS WORTH HAVING.

Double Scarlet Tuberous Begonia,

MAGNIFICENT AS TO SIZE AND COLOR.

Florists should order at once the splendid strain of **CYCLAMEN GIGANTEUM** collected especially for us in the German Imperial Gardens. Also all other Florists' Seeds of highest grades.

CATALOGUE NOW READY.

THE OLD RELIABLE MAKE OF

Elverson, Sherwood

* & *

Barker.

STANDARD

FLOWER POTS.

LAWN VASES.

HANGING BASKETS.

WRITE FOR

ILLUSTRATED BOOK.

PITTSBURG CLAY MFG. CO.

—Successors to—
ELVERSON, SHERWOOD & BARKER. (LIM.) NEW BRIGHTON, PA.

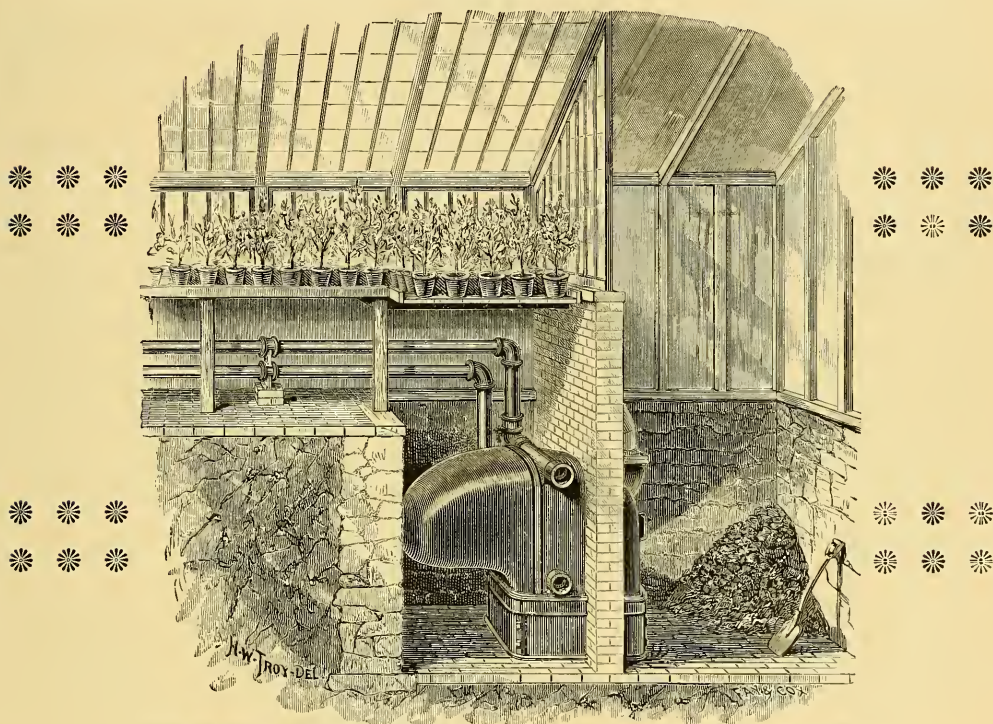
Please mention the American Florist.

HITCHINGS & CO.

Established 1844.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



FIVE STYLES OF BOILERS. TWENTY-FOUR SIZES.

GREENHOUSE PIPE AND FITTINGS.

PERFECT SASH RAISING APPARATUS.

Commercial Rose and Greenhouses erected complete,
or the Structural Iron Work shipped
ready for erection.

SECTION OF OUR STANDARD IRON FRAME COMMERCIAL ROSE HOUSE ON EXHIBITION IN CONVENTION HALL.

HITCHINGS & CO.

233 Mercer Street, NEW YORK.

The Trade Exhibit.

Exhibitors would do well to carefully read the following rules which were adopted by the Executive Committee at the January meeting. In accordance with Rule 2, Mr. C. F. Hale, 719 14th street, Washington, was elected superintendent of exhibition for 1892.

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.

2. There shall be appointed annually at the January meeting of the Executive Committee a superintendent of exhibits. The vice-president of the S. A. F., or the local organization in the place where the convention of the current year is to be held, shall be invited to recommend such superintendent for election by the Executive Committee, as aforesaid.

3. Said superintendent shall have general charge of all details of the annual exhibition and shall be under seven days' full service and pay at and during the convention.

4. He shall receive all applications for space and assign the same in the order in which they are received by him. He shall provide and arrange all necessary tables and staging.

5. Judges shall be appointed by the Executive Committee and the superintendent of exhibition and duly notified not later than at the first morning session of the convention.

6. The exhibition shall be closed between the hours of 2 and 4 p. m. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the secretary on the same day.

7. Awards shall be given as follows:

Highest—Certificate of Merit.

Second—Honorable Mention.

Third—Highly Commended.

8. No awards, except the above named, shall be made on any article exhibited.

9. Doors of exhibition shall be closed five minutes before the opening hour of each session and remain closed during the session.

10. Exhibition to be open not less than two hours before the opening of morning sessions, to remain open during the day, except during session hours, and as provided in Sec. 5, and to remain open one hour after the closing of the evening session.

11. Wall space shall be measured 4 feet in height and when practicable a table not less than 1 foot wide shall be added gratis, if desired and applied for with entry.

12. Space desired shall be designated in square feet. A uniform charge of 25 cents per square foot for all space will be made, excepting that all plants and flowers contributed for exhibition purposes only shall be admitted free.

13. All adjustments not covered by rules or published action of the Executive Committee shall be referred to that committee.

14. Exhibits not in position before 1 p. m. on the first day of the convention may be excluded from the report of awards.

15. No articles exhibited shall be removed until after the close of the last day's session except by permission of the superintendent of exhibition.

16. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Boilers and Heating Apparatus; D—Greenhouse Appliances, including Flower Pots; E—Florists' Supplies, including Fancy Earthenware; F—Bulbs and Seeds; G—Miscellaneous.

17. Exhibitors may group their goods together, excepting in the case of living plants and cut flowers. These shall be shown in a separate department from the other classes.

PAPER SEED BAGS.

CLARK BROTHERS,

Manufacturers,

61 Ann St., NEW YORK.

Flower Seed Bags a Specialty.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form and choice colors; carefully selected; receive high praise from my customers. Every florist should be sure to sow it. Trade pkt. 500 seeds, 50 cts.; 2 pkts. 100 cts.; 5 pkts. \$1.00.

JOHN F. RUPP, Shrewsbury, Pa.

Mention American Florist.

Philadelphia, Aug. 1, '92.

SPECIAL * ANNOUNCEMENT. CONSOLIDATION.

Two of the leading Florists' Supply houses, viz: Marschuetz & Co. and The Phila. Immortelle Design Co., which hereafter will be known as **MARSCHUETZ & CO.**, 23 and 25 N. 4th St., Philadelphia, Pa. The members of the new firm consist of Jos. Marschuetz and M. Rice.

Will from this date endeavor to carry the

Finest and Largest Stock of FLORISTS' SUPPLIES EXCLUSIVELY

to be found in the United States. By the combined forces of the two establishments, the savings thus made, will allow us to sell goods at "ROCK BOTTOM PRICES."

DON'T place your order, no matter how large or small it may be, until you have consulted us in regard to

PRICE, QUALITY, WORKMANSHIP.

In these three we are going to take the lead, and your trade is what we want, and with the above three most important points in business to guide you we should find no difficulty in "GETTING THERE." Our stock will consist of all the newest goods, as our Mr. Jos. Marschuetz has just returned from the foreign markets with Novelties unsurpassed, which will be a revelation to the trade.


Thanking our many patrons and friends for past favors and hope for a continuance of the same.

MARSCHUETZ & CO.,
23 & 25 N. 4th St., PHILADELPHIA, PA.

 **FLORISTS OR OTHERS**
 **DO YOU BUY IN A CASH MARKET?**

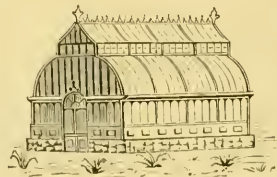
PAINT THAT WILL WEAR WELL,
• • • OR PUTTY THAT WILL STICK.

We make paints, because we know how, ship to all Railroad Stations or Boat Landings without regard to distance, and will make prices for goods laid down at your Station at figures that will pay you to patronize us, if you buy in a cash market. Try it!

 Correspondence solicited, and all inquiries treated considerably and courteously.

HAMMOND'S PAINT AND SLUG SHOT WORKS,
N. E. Corner Long Dock. **FISHKILL-ON-HUDSON, N. Y.**

Horticultural Builders,
THOMPSON, ANDERSON & KENNEDY,
3132 VINE STREET,
ST. LOUIS, MO.

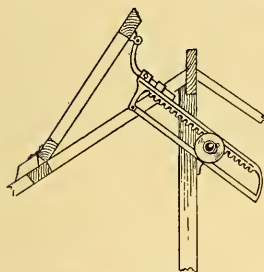


Commercial Rose and Greenhouses, Palm Houses and Conservatories.

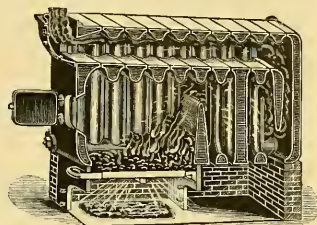
Designs and Estimates furnished on application. Communications solicited from Western florists.

WITH A "CHAMPION" BOILER.

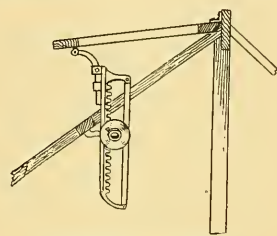
and a NEW "DEPARTURE" Ventilating Apparatus, you can Run a Greenhouse Economically, and with Ease and Comfort to Yourself.



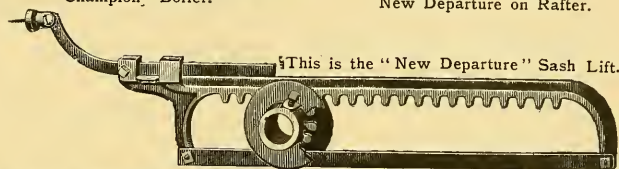
New Departure on Center Post.



"Champion" Boiler.



New Departure on Rafter.

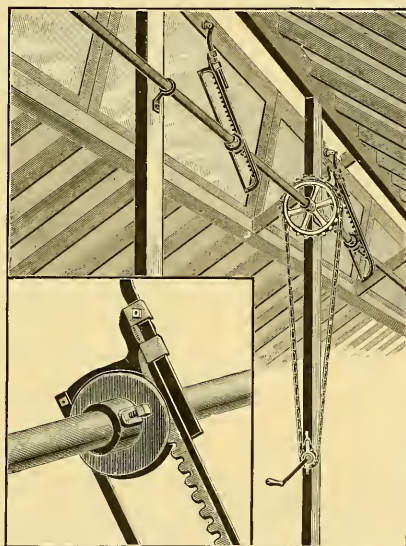


This is the "New Departure" Sash Lift.

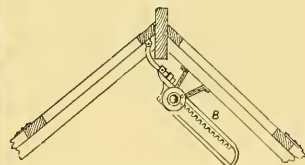
This is not a Meat Saw.



Crank Power.
that works the
New Departure.



"NEW DEPARTURE" With Crank Power Attached.



"NEW DEPARTURE."
See How It Works.

SEND FOR DESCRIPTIVE CAT-
ALOGUES AND LEARN FULL
PARTICULARS.

J. D. CARMODY, - - - Evansville, Ind.

DON'T FAIL TO SEE

STOTT'S EXHIBIT

AT WASHINGTON.

The Bowling Contest.

The contest will take place on the alleys of the Columbia Athletic Club, Seventeenth and G streets, the afternoon of Friday, August 19.

The alleys are 60 feet from front pin to balk line, and 41½ inches wide. Balls of all sizes up to 27 inches in circumference, none larger than the last named size can be used.

Three alleys will be used at one time by as many clubs, but each team will change alleys after rolling one frame. For instance, No. 1 team starts on No. 1 alley, team two on No. 2 alley, and so on. After all the men of No. 1 team have rolled three balls each on No. 1 alley they will roll three balls each on No. 2 alley, then three balls each on No. 3 alley and so forth. No. 2 team starts on No. 2 alley at the same time, then from that to No. 3 alley, and from No. 3 to No. 1 alley, and so on. No. 3 team starts simultaneously on No. 3 alley, from that to No. 1, thence to No. 2 and back to No. 3, repeating until the ten frames are rolled.

It seems likely that there will be nine teams entered, and that the first game will decide the Galt cup contest, and the first and second combined the possession of the Spaulding cup for one year, and the second and third prizes for teams.

This arrangement is suggested so that the prizes may be more thoroughly distributed, as the winner of the Spaulding cup would otherwise be sure to secure more than one prize from the very fact of their being able to carry off that prize.

The second prize, valued at about \$40, is a handsome pitcher, cup and tray donated by Mr. S. Desio, jeweler, of F street, near Eleventh, and the third prize a handsome etching, nicely framed, valued at \$25, the gift of Mr. J. J. Forsyth, 1208 F street N. W.

We hope to secure one or more prizes for individual scores, and I have no doubt we shall be able to do so.

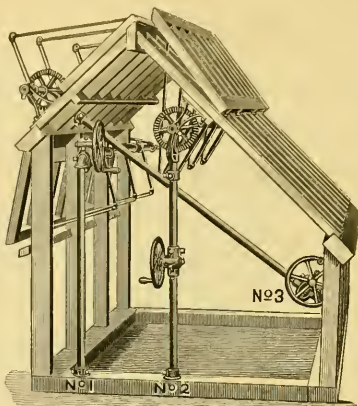
Entries are already recorded from Pittsburgh, Chicago, New York, Boston, Philadelphia, Baltimore and Washington, and it is almost certain that Summit and Buffalo will be heard from.

So far as the prizes given in Washington are concerned, no particular time has been decided upon to close entries, so that any team may enter during the convention if they desire.

The rules governing the contest will be the same as those adopted by the Amateur Athletic Union, with the exception of using three alleys instead of two, which was agreed upon as the fairest, all things being considered, as it does not seem possible to bowl more than two games each unless the time is extended. The calculations made are that it will take from nine to ten hours for nine teams to compete two games each, and that too by every one being promptly in his place.

It is proposed to draw lots for the position as to time of rolling, and also which alley shall be rolled on by the drawer. For instance, if Boston's captain should draw No. 1 ticket his team takes No. 1 alley and rolls one game, at the same time that No. 2 and No. 3 roll. No. 4 would follow on No. 1 alley, No. 5 on No. 2 alley, No. 6 on No. 3 alley, and so on. But every team must roll out one game before any team commences its second game. Nos. 1, 2 and 3 will finish the series first, and 7, 8 and 9 last.

One thing I wish to impress on all the members of teams is the absolute necessity for prompt compliance with the regulations as agreed upon, so as to save as much time as possible. J. R. FREEMAN, Chairman Committee on Bowling.



STANDARD Ventilating Machinery.

The leading and most popular machine in the market.

RECEIVED THE BEST MENTIONS AND AWARDS AT THE THREE LAST FLORISTS' ANNUAL CONVENTIONS.

The leading florists of the country as well as foreign, are equipping their houses and think of buying no other.

Examine the model at the Exhibition Hall, and take one of the beautiful catalogues with you. Yours respectfully,

E. HIPPARD,
YOUNGSTOWN, O.

Will you be at the Convention?

Well, don't forget to examine the largest exhibit of Florists' Supplies in the United States. We will have the newest Designs and Novelties to show you, in Metallic Wreaths, Crosses, Anchors, etc., etc. Our styles of Baskets will not be surpassed. Artificial Wax Flowers and leaves will be an important feature.

Our representatives will all be in attendance. Duplicate orders will be received for any articles displayed to patrons wishing them.

Yours Florally,

H. BAYERSDORFER & CO.,
WHOLESALE FLORISTS' SUPPLIES.

56 N. Fourth Street, PHILADELPHIA.

ARTISTIC COLOR WORK.

The
Orcutt
COMPY
LITHOGRAPHERS,

48-50 WABASH AVENUE,

W. B. ORCUTT, Gen'l Mgr. CHICAGO.

FIRST-CLASS WORK.
NO FANCY PRICES.
GIVE US A TRIAL.

THE MALTESE CROSS BRAND
THE VERY BEST OF **GARDEN & LAWN**

H O S E

TRADE MARK

if your dealer does not have it send direct to the manufacturers

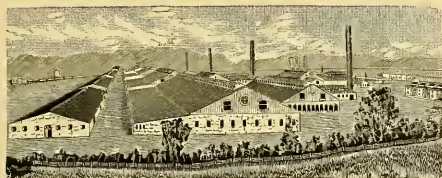
35 Warren Street, NEW YORK. The Gutta Percha & Rubber Mfg. Co. 170 Lake Street, CHICAGO.



IT WON'T BREAK. Ideal merit is making this new trowel popular. All the leading needs men will catalogue it next season. Trade prices and electro (size to suit) on application. Gardener's Trowels and Dibbers a Specialty.

W. B. CLEVES, PATENTEE AND MFR., BINGHAMTON, N. Y.

NATURAL-GAS-MADE



OUTSIDE VIEW OF FACTORY.

—
 ✱ G L A S S ✱
 —

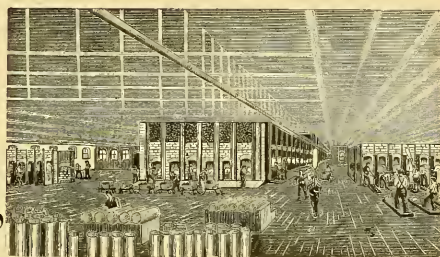
— FOR —

Rose Houses, Conservatories,

— ETC. —

D. H. ROBERTS,

159 & 161 S. 5th Avenue,



INTERIOR VIEW OF FACTORY.

— NEW YORK. —



DEPOT FOR THE FAMOUS
 Chambers & McKee Glass Co.'s Glass.



OUR GLASS RECEIVED THE HIGHEST AWARD AT THE
 BOSTON CONVENTION OF THE S. A. F.

TUBEROUS ROOTED BEGONIAS.

FLORISTS SHOULD PLACE THEIR ORDERS FOR THESE BULBS, TO SUPPLY THEIR WANTS FOR THE COMING SEASON AT THIS TIME, AND TAKE ADVANTAGE OF THE LOW PRICES HERE OFFERED.

Our stock of this popular flower is not excelled anywhere, either in quality or quantity. The bulbs we offer are large, fine, of superior quality. We offer them in 5 separate colors. Tuberous Rooted Begonias will undoubtedly be one of the best selling bulbs for the retail florist the coming season, as they are justly becoming very popular on account of their exceeding brilliancy and extraordinary beauty. They are simply gorgeous and beautiful above description, being covered with a wealth of bloom from June to November that is simply dazzling; the flowers of many of our choice kinds being 4 inches in diameter; the colors range from the most delicate shades of yellow and salmon to the most striking crimson and scarlet. These are a specialty with us and we handle them in very large quantities, and in consequence our prices are less than small seedling bulbs are usually sold at. A trial will convince you.

SINGLE FLOWERED VARIETIES, in separate colors, White, Crimson, Pink, Scarlet, Yellow, Extra sized bulbs, unusually large and fine, \$7.00 per 100; \$60.00 per 1000; 5,000-lots, \$50.00 per 1000.

DOUBLE FLOWERED VARIETIES, in separate colors, White, Crimson, Pink, Scarlet, Yellow, Extra sized bulbs, unusually large and fine, \$16.00 per 100; \$150.00 per 1000.

Ready for Delivery in January.

* * * * *

ALL KINDS OF

BULBS

For Forcing.

HYACINTHS,
TULIPS,
CALLAS,
NARCISSUS, ETC.

See our Special Low Wholesale Price Lists before buying. You will save money by doing so.

* * * * *



* * * * *

Palms, Pandanus, Etc.

—FOR—
**CONSERVATORY AND HOUSE
DECORATION.**

Our stock of Palms is very large and is in fine shape, having been grown cool. We invite intending purchasers to personally examine it before buying. Those who cannot, should send for our Wholesale Price List which gives prices, sizes and condition of plants. We carry principally salable sizes ready for immediate retail sales, all of which are in best possible condition.

Our stock of small Kentias is very large and in finest possible condition. Florists will find this cheap stock and very profitable for growing on. We offer strong 3-inch pot plants at \$12 per 100; \$100 per 1000; and 3 1/2 inch pot plants, very much stronger, with 3 to 4 leaves at \$25 per 100; \$200 per 1000.

AZALEAS FOR FORCING.

We can supply these in November, with fine bushy tops, about 15 inches high, with heads about 12 inches across, of the best selected varieties for forcing. All named kinds, \$7.50 per dozen; \$50.00 per 100.

THE NEW CANNAS, MAD. GROZY, STAR OF '91, &c.

We have without question the largest stock of these New Cannas in the United States, and have probably more available stock than is held by all other American houses combined.

Florists who issue catalogues should write us now for special prices for dormant roots for delivery in spring, 1893. These will make fine selling novelties for 1893, as we can wholesale them next season so that retail prices can be made that will put them within the reach of ordinary buyers, and immense quantities can be sold in consequence. Florists who issue catalogues should not fail to list them. Give us an idea of your wants and we will quote best possible terms according to quantity wanted. If the season is favorable we expect to have at least 100,000 of these varieties to offer. We can furnish colored plates of "Mmc. Crozy," with name and address printed on as desired at low rates.

TRADE LISTS ON APPLICATION. Address

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, N. Y.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, AUGUST 18, 1892.

No. 220

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

FLORISTS' PROTECTIVE ASSOCIATION.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Chicago, president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

FLORISTS' HALL ASSOCIATION.

Insures greenhouses against damage by hail.
JOHN G. EBLEY, Secretary, Saddle River, N. J.

CONTENTS.

The Washington convention	53
Response to address of welcome	53
President Dean's address	54
Yucca filamentosa (illus)	55
Secretary Stewart's annual report	56
Extracts from review of new plants	56
Yucca baccata (illus)	57
Yucca filifera (illus)	59
Hybridizing and improvement of plants	60
Yucca gloriosa (illus)	61
Yuccas	61
"Snake tree"	62
Philadelphia	64
Boston	64
Worcester, Mass	64
Toronto	66
Growing bulbs in America	66
Sea sand as soil	66
Buffalo	68
Cincinnati	70
New York	70
Baltimore	72
St. Louis	74

Election of Officers, S. A. F.

St. Louis was selected as the place of meeting next year, and officers for the ensuing term were elected as follows: William R. Smith, Washington, president; Professor William Trelase, St. Louis, vice-president; William J. Stewart, Boston, secretary; M. A. Hunt, Terre Haute, Ind., treasurer. The weather was pleasant all through the convention and not nearly so warm as had been anticipated.

Do YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

The Washington Convention.

The attendance at the Washington convention was even greater than anticipated. On Monday evening the delegates began to arrive by car loads, the Philadelphia train of six cars being the first to arrive, closely followed by the combined New York and Boston party with ten cars. These two trains carried 450 delegates. Then came Chicago and Milwaukee with 65, Pittsburg and Allegheny with from 40 to 50, and St. Louis, Indianapolis and Cincinnati with 30. In addition to these main parties smaller delegations came on every train. The Boston and New York people were loud in their praises of the hospitality of the Philadelphia brethren, and Boston had a big story to tell of the kind entertainment furnished by the New Yorkers to their friends from Yankee land. On Tuesday morning Baltimore made a triumphal entry headed by a band, and halting in front of the convention hall made the echoes ring with the strains of "Maryland, My Maryland." The proceedings opened at 10:15 a. m. The large hall which was beautifully decorated having every seat full and overflowing into the hallway. Never before was there such a large attendance at the opening session. In the gallery the band discoursed sweet music. On the platform were the officers of the society, Hon. John W. Ross, Commissioner of the District; Hon. Edwin Willits, Assistant Secretary of Agriculture, ex-Presidents Thorpe, Craig, Hill, May, Jordan, Norton, and members of the executive committee. The proceedings opened by the introduction of Hon. John W. Ross by Vice-President Smith, who made a very cordial address of welcome on behalf of the District of Columbia, and was followed by Hon. Edwin Willits, who made a splendid address on the high mission of floriculture, and who also extended a sincere welcome on behalf of the National Government. Ex-President Hill followed with a characteristic response, which appears in full below. President Dean on taking the chair was presented by Mr. Smith with a gavel made of wild cherry from Mt. Vernon, a gift from Mr. Franklin A. Wheland, gardener at Mt. Vernon. President Dean was received with enthusiastic applause and his annual address gave great satisfaction. The reports of the secretary and treasurer followed and showed the affairs of the society to be in a most prosperous condition. Mr. J. N. May made announcement of the sad intelligence received of the death of F. T. McFadden, of Cincinnati, and a committee was appointed to prepare resolutions of condolence. In the discussion of the president's address Ex-President Jordan spoke of the great importance of obtaining a national charter, and of the project to establish a set of medals and highly praised the auxiliary societies. The address was further dis-

cussed by Messrs. May, Beatty and Craig. The trade exhibit was the best ever made at a convention.

MR. HILL'S RESPONSE TO THE ADDRESS OF WELCOME.

Mr. Mayor, President Dean, and Ladies and Gentlemen: We have been delighted by your earnest, hearty welcome to this beautiful city of Washington; we thank you most heartily for this tender to us by you of the hospitality and freedom of the capital city; we have caught glimpses of your magnificent avenues lined with splendid trees, your open spaces and parks dotted with shrubbery and planted with flowers, and we are prepared, sir, to believe that you have not told one-half of the truth concerning the beauties of the capital of our great Republic. I never quite understood before why so many of the citizens of my own beloved commonwealth were so anxious and desirous of making this their place of residence; even the most distinguished of Indiana's sons is not averse to a further residence of four years with you, and I note that the distinguished gentleman who is at present fishing and sojourning off the Massachusetts coast was so delighted and so charmed with his four years of life with you that he, too, like the distinguished gentleman from Hooisierdom, wishes to duplicate his four years of residence with you. It is cause, Sir, for patriotic congratulation to state that whichever of the two honorable gentlemen may be favored with a four years residence, dating from next March, either one of them will, Sir, add lustre to American citizenship and honor to this fair city.

We have looked forward with pleasure and delight to this happy day, the day when we should assemble together at the capital of the nation; we have come, Mr. Mayor, with three distinct purposes in view; the first is that we may have an interchange of thought concerning the experiences of the past year; we have problems to solve and difficulties to overcome, and we meet in annual assembly from all over this great country and Canada that we may decide questions that confront and perplex us; in other words, we come that we may learn wisdom one from the other; in the second place we gather here for recreation and pleasure, to renew old acquaintances; the boys—and some are quite old boys, come to bowl balls, knock the pins; some of the younger gentlemen come to woo young maidens fair, and the maidens come to be wooed; we make confession, Mr. Mayor, to all these things. Our third purpose in gathering here at the city of Washington is that we may do honor to one of our own honored citizens; a man who has lived in your midst for over a half century; a gentleman who has contributed

more to horticultural knowledge and botanical science than perhaps any other gentleman in the country. We take pleasure and delight, Sir, in thus being able here in the city of Washington and at his own home to testify to the worth and work of our first vice-president of this society, Superintendent of the Government Botanical Gardens, Mr. William R. Smith. We have had his kind and interested counsel and advice ever since the inception of our organization; we have drawn from his store-house of information time and again, and we have noted that as the years have grown upon him he has grown more genial in heart and broader in mind, and we feel honored ourselves in thus honoring him.

Our society, Mr. Mayor, is international in character, and we have with us this morning a goodly number from the provinces of Ontario and Quebec. We are proud of our Canadian brethren, proud, Sir, because they are the peers of any on this side in regard to cultural skill, knowledge and moral worth. I think and believe that they are, Mr. President, a fine type of Anglo-Saxon civilization; on their behalf I thank you for your eloquent and fitting words of welcome.

The history of floriculture on this continent is creditable alike to the American people and to the florists; to the people for their appreciation of the products of cultural skill and their willingness to pay remunerative prices; to the florists for their persistent efforts to raise the standard of excellence in the face of great difficulties incident to the country's industrial development. It is only within the past 20 years that practical horticulture has attained a place and position in the commercial world. The struggles and triumphs of the florist's profession are matters of knowledge to most of the gentlemen present this morning; but a better day has dawned, and in all modesty I assert that floriculture and floricultural art are destined to play an important part in Anglo-Saxon civilization, unnoticed, perhaps, by many, if not by most, of our fellow-citizens. The cultural skill of many of the gentlemen present has had an important influence upon art and upon the younger generation of artists; the studios and picture-galleries give unmistakable evidence of this. Varieties of roses, chrysanthemums and other flowers and plants are drawn and painted with a faithfulness to outline and color that was not thought possible a generation ago. The highest and most perfect development of the rose is wrought and perfected by the consummate skill of American rosarians under the roofs of American greenhouses, and these furnish models of artistic excellence for brush and pencil.

I repeat again that we are glad to be here in this magnificent city, a city that is representative of the best thought and noblest impulse of American life, a city that is rich in its history and its associations; we glory in the development of this city, in all that makes Washington great and grand, and we are proud of it because it has given shelter and home to Washington, Jefferson, Madison, Lincoln, Garfield and other noble and worthy men. We hope it may grow in grandeur and beauty until it shall shine forth like a diamond in the circle of cities that shall compass the earth with a girdle of Anglo-Saxon civilization.

Again I thank you on behalf of the officers of this society, the membership, the ladies who accompany us and myself individually, for your cordial greeting to the Society of American Florists.

President's Address.

LADIES AND GENTLEMEN AND MEMBERS OF THE SOCIETY OF AMERICAN FLORISTS:

It is a pleasant duty which custom has assigned your presiding officer, to open the business part of our annual meetings with an address upon such subjects as in his judgment merit your consideration for the well-being and advancement of our society, and for the elevation of its aims to the extent of improving the calling of floriculture.

The presence of this large and intelligent audience here assembled at our eighth annual meeting shows the extended interest which our society has awakened among floriculturists of the country. Many of you have come from long distances, undergoing the discomforts of summer travel, that you might gain and impart knowledge and discuss the recommendations presented to you, with a view to their ultimate realization. It is to be especially hoped that the essays so carefully prepared for presentation to this meeting will receive the attention they deserve and will call out discussions which cannot fail to be of great benefit to us in our business.

We open this convention under the most favorable auspices; our roll of membership is steadily increasing; our treasury shows a most creditable balance.

The business both to the retailer and grower during the past year has surpassed that of any previous year, and there is a steadily growing demand for a better grade of plants and flowers. Especially is this noticeable in the high grade of plants required for bedding purposes, such as crotons, the new French cannas, tuberous begonias and aquatic plants.

Since our last annual meeting the interests of our society have been pushed by an able executive committee, and as a result it was hoped that we would be able to convene for the first time under the protection of a national charter; but it was found impossible to secure its consideration by congress at its last session. It is hoped, however, that the bill will be called up next December and passed.

Permanent rules and regulations have been adopted governing our trade exhibits held in connection with our annual meetings, which are intended to so aid the manager in the classification of the various exhibits and so facilitate the work of the judges as to enable the exhibitors to display their certificates of award on the evening of the first day.

The offering of gold, silver and bronze medals by the society to the originators of new hybrids or novelties raised from seed, or for the discovery and introduction of new species that are decided improvements over existing varieties, should be an inducement to our floriculturists to persevere in hybridization and cross-breeding of plants with the view of obtaining new and better forms.

These advancing steps of the society show its growing strength and unity. But we must not rest here. We must continue to advance. We must gather members from all classes concerned in horticulture, from the growers, from the florist supply men, from dealers in cut flowers, from gardeners, and last, but not least, from the employes of all these classes. We must continually draw closer the bond of our common weal and by our unity and high purposes be a power for good, not only for the benefit of florists, but also for the benefit of their patrons.

We must, as a national organization,

encourage and aid the organized efforts of our state horticultural societies and kindred associations. The amount of work accomplished during the past ten years by these societies is not as well understood as it should be. The great improvements made in the chrysanthemum, rose, carnation and many of the other flowers can be traced directly to the high standard of excellence adopted at their exhibitions; in this connection we are pleased to note the progress being made by the chrysanthemum and carnation societies formed within our own membership, each with the special purpose of improving the class of plants and flowers it represents. I would earnestly recommend the closest affiliation between these associations and the main society. We are about to organize a rose society, with possibly an orchid society, and at the rate we are advancing we may have a "palm" society and a "fern" society. The danger is that we may so divide our forces as to weaken ourselves, and, in some degree, impair our usefulness, unless these sub-societies work hand in hand with the parent association. The important meetings of the auxiliary societies will doubtless be at the time of our annual meeting, when the widely scattered members can conveniently get together. It is confidently expected that these experts in each special line will be enabled to do good work in the departments, and I suggest that a review of their work and of the latest developments should be embodied in a report by one of the members, selected for the purpose, to be read as part of the proceedings of this society; in this way can the latest and most complete information in each line be given to the whole association.

The Hall Association is now established in permanent usefulness and the Protective Association has proven to be of great benefit.

Our advance as a society must be commensurate with and excel the advance of floriculture, which during the past twenty years has been phenomenal. The trade has now assumed colossal proportions in America. The characteristic features of this advance are the erection of better plant houses, the adoption of improved methods of cultivation, the growing of specialties, a more general employment of labor-saving devices and a noticeable increase in the mental alertness and business ability of florists.

These have to-day brought floriculture to be a leading industry of the country.

From the census of 1891 we learn that the number of commercial establishments in the United States, devoted to floriculture, are 4,569; that they have in use 38,823,247 square feet of glass; that their value, including tools and fixtures, is estimated at a total of \$40,000,000, and that they give employment to 16,847 men and 1,958 women, who earned in wages during the year \$8,483,657.

The sales of plants during that year amounted to \$12,036,477.76; of cut flowers to \$14,175,328.01—a total of \$26,211,805.77. These sales were those of commercial establishments alone and take no account of the large number of plants and flowers grown and used in private establishments.

I wish now, fellow members, to call your attention to two urgent needs of our profession felt for years by every florist in the country, and which it is within the province of this society, if not to supply, at least to agitate until agitation shall culminate in realization. I refer first to the need of a college where a scientific



YUCCA FILAMENTOSA.

training combined with a general business education can be had for our young florists, second to the need of an experimental station to which florists can refer the vexed questions that constantly arise in the practice of their profession.

These needs have been clearly outlined by former presidents of this society. I believe the time has now come for action on the subject.

In floriculture as in any other profession the beginner needs a proper training. As a rule we have grown solely in practice, with no knowledge of the scientific possibilities of plant cultivation. Ignorance of the correlative laws that govern plant demand and soil supply balks us at every step and has retarded the general advance of floriculture many years. It forbids the advances we long to make and leaves us helpless in the face of great possibilities. Another burden under which we labor is the lack of practicable business methods. This lack is the cause of many a dollar wasted or lost and of the scarcity of rich men in our profession.

We need a college to remedy these two failings, from which the coming generation of florists may issue, trained in the science of their callings and in the business methods so necessary for success in any walk of life. We also need an experimental station such as the Department of Agriculture has instituted in nine of the states of the Union.

The florist is perplexed with some question pertaining to the constituent parts of the soil and how best to adapt their chemical actions to the needs of the growing plants. Or the florist discovers a new variety and wants it classified and named. He would turn to the experimental station with the assurance that his perplexities or new discoveries would be carefully considered. But why should not the laboratory of the college where the students pursue their study in floriculture under the direction of the professors, be of itself the experimental station which we so much need? That, fellow members is the key-note of my recommendation. Under one head and in one institution

can be established the college and station. The laboratory that fulfills the needs of the students could be utilized to meet the needs of the florist. The students and professors alike would form the working corps of the station. Indeed, what better material could be provided for the laboratory researches of the students than that supplied by the army of inquisitive and eager florists throughout the country? Such an institution would be of untold value to our profession. It would be the organized center of investigation and training and the impetus it would thereby give to making discoveries and to disseminating the knowledge of plant life would establish floriculture as a science as well as a trade. I cannot urge upon you too strongly the beneficial results to be obtained by providing for these two urgent needs of the florist. I therefore recommend that you appoint a committee to investigate the feasibility of this plan or any plan providing for the training of young florists and meeting the needs of an experimental station and to report how they can best be put into execution.

It is to be hoped the society will take some action in this direction. It may be found by the committee that union with horticulturists in this matter would be advisable and that a college and station for both floriculturists and horticulturists could be planned on a much broader basis than one for floriculturists alone.

The coming of the World's Fair next year calls for our serious attention. The horticultural and floricultural exhibits there will surpass in magnitude any of a like nature the world has ever before seen.

The Horticultural Building, which is now complete and ready for the reception of plants, is the largest building ever erected for an exhibit of plant life. It behooves us as a society and as individuals to see that every aid is extended to ex-President Thorpe, who has charge of the exhibit, in making it worthy of the occasion and of the country. Our state vice-presidents and state horticultural societies and kindred associations should see that their respective states make a creditable display and assist in every way possible the departments of horticulture and floriculture in preparing for their exhibit. A chief difficulty to be met is that of obtaining and transporting specimen plants of sufficient size to show well in a building of such immense proportions.

It should be the endeavor of every one interested in floriculture to secure such specimens. There are many public spirited citizens owning desirable plants, who, if they knew of the need of the exhibition, would gladly loan or give them to the department if relieved of the cost of transportation and of the work entailed in packing and shipping.

I strongly urge the state and local societies to do their utmost toward securing such plants and to see that transportation shall not be lacking.

And now comes the saddest part of my duty, to report the loss, by death, of ten of our members during the past year. Some of these had been closely identified with the society since its organization, and invariably took an active interest in its welfare. Their wise counsels and familiar faces will be sadly missed at our annual meetings.

To the press in general I desire to extend the thanks of our society for the unvarying courtesy extended to us; our trade papers in particular I wish to thank for their untiring and successful efforts in behalf of our society and of horticulture.

SECRETARY STEWART'S REPORT.

MR. PRESIDENT, LADIES AND GENTLEMEN: It becomes my pleasant duty to add to our lengthening history as a society the record of another year of advancement and to congratulate you on the steady development which is fitting us for future achievement in the great field which is peculiarly our own.

The convention at Toronto in 1891 was a most successful one and the attendance large, considering the small extent of the local horticultural industry as compared with that in the thickly settled localities where most of our meetings had previously been held. The published report of the meeting contained 192 pages, 52 more than that of the Boston meeting which preceded it, proving that the predictions of an industrious session for 1891 were well founded. Among the notable features of the meeting were the invaluable report on nomenclature by Mr. Wm. Falconer, the recommendation of Mr. John Thorpe for the position of Chief of Floriculture at the Chicago Exposition, which doubtless had much to do with his subsequent appointment, and last, but not least, the welcome and hospitality we enjoyed at the hands of our generous Canadian brethren.

The executive committee met according to custom in this city last January, the session lasting three days. Among the many matters discussed and acted upon were the needs of the Horticultural Department of the World's Fair, the incorporation of the Society of American Florists, the necessity of a more systematic management of our trade exhibition, our relations with the various auxiliary societies which have been springing up in our midst, the limit to which the indulgence in sports and recreation may be encouraged in connection with our meetings, the reduction of express rates on plants and flowers and the adoption of a set of medals to be awarded to originators or discoverers of new and improved species and varieties of plants.

The number of members of 1890 who have failed to respond for 1891 is 251. Whole number of dues collected for 1891 was \$27. Of this number 132 were new names. The new members came from the various states as follows: From Pennsylvania, 24; New York, 22, Canada, 22; Massachusetts, 16; Illinois, 9; New Jersey, 7; Michigan, 5; Kentucky, 4; Ohio, 3; Alabama, Connecticut, District of Columbia, 2 each; Arkansas, California, Florida, Indiana, Maine, Maryland, Minnesota, Tennessee, Utah, Virginia, Vermont, West Virginia, England, 1 each.

The number of deaths in the society reported since we last met is ten; Jens Larsen, Indianapolis; F. Lucien, New Orleans; J. W. Page, Medford, Mass.; J. H. Butterfoss, Lambertville, N. J.; James Taplin, Maywood, N. J.; Albert Benz, Douglaston, N. Y.; S. Davies, Utica, N. Y.; E. H. Rath, Flushing, N. Y.; Chas. T. Starr, Avondale, Pa.; and J. A. Salzer, La Crosse, Wis.

For the first time, in accordance with the vote of the executive committee, we have an official registry book for the members, which all are requested to sign to-day. Another innovation of this year is the abandonment of hotel headquarters and centering of all the interests, committee meetings, etc., in this building. This change will doubtless meet with special approval by the exhibitors. It is gratifying to be able to state that we have received more consideration and better terms from the railroads than ever before. The officers of the society and the members in general have all

placed your secretary under great obligations to them for their courtesy and kind assistance, which have been freely extended at all times.

TREASURER'S REPORT.

Receipts from July 1, 1891, to July 1, 1892:

Balance on hand.....	\$1028.55
Membership fees.....	2358.00
Interest account.....	41.67

Total.....	\$3428.22
Expenditures.....	\$1097.28

On hand July 1.....\$1430.74

Extracts From Review of New Plants.

BY WM. FALCONER.

[Presented at the Washington Convention of the Society of American Florists.]

Roses.

NEW ROSES.—By MR. ERNST ASMUS, W. HOBOKEN, N. J.

In France the very severe winter of 1890-1891 killed most of their roses, consequently very few seedlings or new roses were sent out by French growers last fall. The few that I have tried this year I can, unfortunately, tell you very little about, as I have been away down south for my health the time they were in bloom and did not see much of them and my foreman omitted to make notes of those that did bloom. I shall, therefore, test them all over again the coming season. I will, however, let you have the benefit of what I did observe. Among the new teas the most promising are:

Medea, in style of *Perle des Jardins*, a little lighter in color, more cup shaped and very double. This ought to prove a good rose for the south, but for forcing under glass in our latitude I think it is a little too double. The next best I think is *Souvenir de Madame Antoine Levet*, that is if the name does not kill it. It is a new shade among teas, being much like William Allen Richardson in color, a shade of fine orange yellow, small to medium in size, but rather too thin petalled, bearing its flowers mostly single on stiff stems. A rather poor grower.

I have tried seven or eight other teas, but for reasons given above can give no descriptions of them, I hardly think, however, there is anything good among them.

As to Hybrid Teas, I rather think the raisers are improving on them, and I think two or three of them will turn out well another season.

Hybrid Tea Empress Auguste Victoria, white, deliciously fragrant, the perfume resembling that of our wild magnolia, grows and blooms freely; the flowers are somewhat after the style of *Bride*. I think this will turn out to be a good rose.

J. T. Augustine Halem.—A little lighter in color than American Beauty, has medium sized flowers and is a very free grower and bloomer so far as I have seen it. I think this will make a good rose for small growers who want flowers of this color and can not get along with American Beauty, as it is a rank grower and continually in flower. Its flowers are a little larger than those of *Perle des Jardins*.

H. T. La Fraicheur.—I have only seen one flower of this, but the color struck me as very fine, somewhat in the style of Anna de Diesbach. It is a little slow in growth. Shall give it a thorough trial next year.

I will now give you my experience with the two varieties I kept over for a second year's trial from last year, namely, *Sou-*

enir de Pernet Pere and *Mad. Caroline Testout*. The first named I found to my sorrow to be very fine in the fall; thought sure I had struck something good, so bought all the stock I could get, only to find that it was good for nothing in winter. But we all have to pay for our experience, and I think I am well paid in what I found in *Mad. Caroline Testout*. Here is a rose which I think is the best Hybrid Tea the French have sent out up to date. It is clear pink in color, there is nothing that I know of in the rose line that can approach it in color, and the flower is as large as a *Baronesa de Rothschild*, and as free as a *La France*, and if my judgment is not mistaken it will make a sensation in the cut flower market when it is brought in in good shape.

ROSES.—By MR. J. N. MAY, SUMMIT, N. J.

Elyse Heymann.—Flesh colored rose, of the past season; a strong grower, but of little value.

Grand-Duc Guillaume de Luxembourg.—Lemon yellow, very pretty but too thin in petal to be of any good in our climate.

Grande Duchesse Hilda de Bade.—Of very little use.

Madame Benoit Riviere.—Similar to *Elyse Heymann*, of no material merit.

Mademoiselle Genevieve Gougon.—Pale French white, flushed with rose color.

Souvenir de Madame Antoine Levet.—A strong grower but pale bloomer.

La Fraicheur.—A variety which obtained high honors in France, but has certainly nothing of particular value for our use.

Madame Pernet Ducher.—This is a large, fine rose, for summer blooming only.

Gustav Regis (climber).—This is a very fine hybrid tea for summer blooming only.

Madame Caroline Testout.—Of last year's importation. Somewhat in the way of *Mme. Cusin*, and promises to be of value to us as a forcing rose. Color somewhat deeper than *Mme. Cusin*. Fine vigorous grower and very free bloomer.

Oakmont.—Hybrid perpetual of American origin, sent out this year. This will be a valuable rose for market purposes, or for summer blooming, but it is not suitable for forcing when other varieties can be had, though it will be of considerable value as an early variety. Color somewhat in the way of *Paul Neyron*; very fragrant and very free bloomer, nearly as large as the above named variety.

F. B. Hayes—Hybrid China.—This is a summer bedding rose; will be invaluable as it is very free blooming and of a bright, clear crimson color.

Margaret Dickson.—The finest of all white H. P. roses. It has taken more first premiums in England than any other variety in this class, and is regarded there as the best rose of recent introduction. With me it is a very fine grower and will make a very fine summer bedding rose, but of no use for forcing.

Marchioness of Dufferin.—Another fine new rose of this year's introduction. In the way of *Queen of Queens*, but a much larger and fuller rose. This is a grand acquisition to us as a hardy summer bedding rose.

There are several other varieties of new French roses of last year's importation, but so far they have proven of very little value, in fact they might be classed as of no value to the American grower.

Marion Dingle.—A new American rose of this year's introduction. Promises to be of value for summer bedding only. As far as my experience has gone it is o



YUCCA BACCATA.

bright crimson, clear color and very free bloomer.

Golden Gate.—An American rose of last year's introduction. Delicate yellow suffused with deeper yellow at the base of the petals. It would be very beautiful if it had a little more substance; as it is it is a little too thin to meet the requirement of a rose of the present day.

Bridesmaid.—One of the best introductions among tea roses for forcing purposes. A fine, clear, dark pink, the counterpart of Catherine Mermet in every particular excepting somewhat deeper in color, but not so deep as Waban, and it has not the bad habit of the latter of bursting its flowers and coming malformed.

The Queen.—One of last year's roses. It is a white sport of the old favorite variety, Souvenir d'un Ami, but not as good a variety as that. The flowers are not very full, but the petals are of a beautiful waxy white color. Having other much better white roses this one has never become a favorite.

Henry M. Stanley.—This rose and Pearl Rivers were introduced with Golden Gate, but none of them have proven of any

special value except for summer bedding; there they have found their place.

Earl of Dufferin.—I regard this hardy rose, which was introduced a few years ago, as the most valuable of the whole. It has large, fine flowers of a brilliant crimson color, is very fragrant and a free bloomer and is as hardy as Jacqueminot.

AMERICAN NEW ROSES.—BY THE DINGEE & CONARD COMPANY, WEST GROVE, PA.
Marion Dingee.—This is one of the best new tea roses. Flowers large and full; color bright crimson; produces beautiful buds; foliage healthy and strong. A very profuse bloomer.

Golden Gate.—Flowers large and full; buds very large and well formed; color creamy white beautifully tinged with golden yellow; petals often marked with clear rose. One of the most promising varieties.

Pearl Rivers.—Flowers large, quite full, buds often of fine peachy red. The petals are delicately shaded and bordered with clear rose; flowers very fragrant.

The Queen.—Flowers very large; color pure white, fine in bud and one of the best to retain its color in open ground. Highly esteemed in England, where it has

been awarded several medals. Very satisfactory for general purposes.

NEW FRENCH ROSES.—BY THE DINGEE & CONARD CO.

Madame Victor Caillet (tea).—Flowers large, fine and of regular form; moderately double; color bright rosy pink shaded with salmon and coppery red. Distinct and promising.

Etoile Polaire (tea).—Color delicate shade of salmon pink faintly colored with red and canary yellow. Quite promising.

Madame la Generale Gourko (tea).—Color soft reddish pink passing to buff and China rose; quite double; plant a strong, vigorous grower.

Grand Duchess Hilda de Bade (tea).—Color rich creamy white; base of petals faintly tinged with pure golden yellow. A neat compact grower and free bloomer.

Grand Duchess Guilanme de Luxemburg (tea).—Flowers large and double, well formed petals of great substance; color clear salmon rose, reverse of petals delicate peach; produces fine buds.

Madame Louis Patry (tea).—Plant robust and healthy grower; color creamy white delicately shaded with rosy blush; quite double and very fragrant. Promising variety.

H. Plantagenet (tea).—Plant a healthy robust grower; color beautiful China rose shading to bright pink and carmine; produces beautiful buds almost free from thorns.

Madame Bessonneau (tea).—Strong grower; flowers very large and full, sometimes globular; color rich apricot yellow tinged with amber, outside of petals creamy white; very fragrant.

Rosario Castel (tea).—Flowers quite full; color soft creamy white, rose-colored center; plant a good grower.

Elyse Heymann (tea).—Plant strong grower; color bright glowing pink, outside of petals golden yellow sometimes shaded with saffron rose.

Monsieur Tillier (tea).—Flowers quite large; color carmine passing to coppery red. Quite pretty and distinct.

Augustine Halem (hybrid tea).—Flowers quite large and full; color clear red verging to crimson. Habit of plant healthy; good substantial foliage; a constant and profuse bloomer; very fragrant.

Baronne G. de Noirmont (hybrid tea).—Flowers large and full, good substance, resembling the La France rose in formation of buds; color delicate shade of rosy pink, the reverse of petals satiny rose; very pretty.

La Fraicheur (hybrid tea).—Flowers large and well formed; color beautiful pearly white shaded to bright pink, darker towards the center, reverse of petals carmine.

Grand Duchess Alphonse de Luxembourg (hybrid tea).—Flowers large and full; color bright glowing pink with a shade of coppery yellow, the reverse of petals salmon pink.

Madame Pernet Ducher (hybrid tea).—Flowers moderately double; color bright canary yellow, outside petals light carmine shaded to creamy white; quite handsome and desirable.

Lydia (hybrid Noisette).—Flowers medium size, finely formed and borne in clusters; a very profuse bloomer; color beautiful white shading to carnation pink in centre.

Souvenir du Lieutenant Bujon (Bourbon).—Flowers large and well formed; color bright cherry red passing to rosy carmine; very fragrant.

Monsieur Reve (hybrid perpetual).—Plant a vigorous grower; color salmon

pink, quite distinct in shade from most other roses; flowers very large and double. Promises to be a free bloomer.

Frere Marie-Pierre (hybrid perpetual).—Somewhat on the type of Baroness Rothschild; flowers are produced singly on strong canes; quite a free bloomer and almost thornless; color fine rose and pinkish red.

HARDY ROSES.—By WM. H. SPOONER, PRESIDENT MASS. HORT. SOCIETY, JAMAICA PLAIN, MASS.

There is very little in the list of new garden roses that is worthy of special mention. The H. P.s now in cultivation are so good that it requires rare excellence to merit a competing place in the garden for the new comers.

Margaret Dickson, with a gold medal attached to its name and blazoned before the world by the nimble tongue as the greatest acquisition of modern roses, is, I fear, likely to be a little disappointing, for with me the plant has run to blind wood, under glass as well as in the open ground. The color of the flower is white with pale flesh center; very full, with petals of great substance, in the way of Merveille de Lyon, but larger. The plant is a very strong grower, much stronger than the last named rose; even stronger than Her Majesty, but like that much recommended rose, not a free bloomer. A few months' experience with plants grown under rapid propagation, however, is hardly a fair test of their best qualities.

Marchioness of Dufferin, another gold medal seedling of Dickson's. In color a beautiful rosy pink; like most of this strain the foliage is fine, the growth strong, the plant a free bloomer, almost as fine as Jennie Dickson. It bids fair to become an acquisition for the garden, and with its fine color a forcing rose.

ANNUALS, ETC., FOR FLORISTS' USE.—By DENYS ZIRNGIEBEL, NEEDHAM, MASS.

Aster, Early Dwarf, The Parisian, is without question the earliest in cultivation and the only aster that will stand forcing, our plants blooming in eight weeks from the seed. Grown on a bench planted six inches apart they will average about five or six flowers only to the plant.

Aster Candelabrum, an odd growing variety; dwarf, close, compact grower, with large flowers of red, pink and white shades. Owing to its compact habit and lasting properties, will make a capital variety for massing.

Aster, Black Purple.—A novel color in asters, of the pompon class and the darkest grown. Of no special interest to florists.

Calendula grandiflora nana, a splendid variety and superior to all either for cut flowers or plants for market. A dwarf compact grower and forces well. Large, double deep orange flowers.

Candytuft, Empress.—Good enough for massing in beds, but rather dwarf for cut flowers, the also new Dobbie's Spiral being superior in that respect, as well as the Giant Rocket, which is largely used in the Boston market.

Celosia Thompsoni, or *Triomphe de l'Exposition*, is a very showy annual. We are inclined to think the handsome crimson plumes will become useful as cut flowers, as they are very showy. Rather late, however, for spring sales.

New early dwarf white stock. A capital variety for florists and best of all for

inside work, coming quickly in bloom, and having large trusses of compact flowers. As an intermediate crop, will prove very handy to florists in case of failure of violets, etc.; a well paying crop producing two-thirds double flowers.

Golden Fleece.—An interesting variety of the above stock of a pleasing shade of yellow and of the same habit as the preceding.

Pansies.—We do not have to add anything to our report of last season. The two new varieties, *Cardina* and *Meteor*, are small in size and the bright red shades are the same as prevalent in the Bugnot pansies which are three times as large. By the way, we are trying, with Mr. Bugnot, the crossing of his strains with the Trimardean race, which is probably the hardest of all pansies, and we are glad to report some interesting results which will render those splendid strains more popular still.

Rosea Odorata, Golden Queen.—A rather pretty shade of yellow and very fragrant. A proper selection will be necessary, however, to compete with the large-flowered varieties in the market now.

Zinnia, New black red colored.—Quite a handsome shade and the darkest yet attained in zinnias. As zinnias are getting in favor as cut flowers, it will be valuable as a florist's flower.

AQUATICS.—By EDMUND D. STURTEVANT, BORDENTOWN, N. J.

Besides the aquatics mentioned last year the following new varieties are fast becoming popular:

Nymphaea Martiacea albida.—This plant belongs to the same class as *N. candidissima*, with flowers of a more pearly whiteness and somewhat less stiff in form. It is hardy and free blooming.

Nymphaea odorata sulphurea is a hybrid between *N. odorata* and *N. flava*. The flowers have the form and fragrance of *N. odorata*, with a light yellow color slightly deeper than *N. M. chromatella*. They stand out of the water a few inches. The plant is hardy and free blooming.

Nymphaea odorata exqu岸ita is a new variety, resembles *N. odorata rosea* in all respects except in color, which is a deeper shade of rose.

Nymphaea pygmaea helvola is a cross between *N. pygmaea* and *N. flava*. The flowers are larger than those of *N. pygmaea* and of a very pale yellow color.

Nymphaea Laydeckeri rosea is the very latest introduction. It is a hybrid between *N. pygmaea* as the seed parent and some rose colored species (possibly the Swedish Pink Water Lily) as the pollen parent. The flowers are twice the size of those of *N. pygmaea*, pale pink on first opening, changing the second and third days to deep rose color. It is a gem of the first water for amateur collections.

Cabomba Carolinensis is not new, being a native of the south. It is a submerged plant with delicately divided rich green, very ornamental foliage. It has proved to be the very best plant known for keeping in aquariums with gold fish. The fish will always remain healthy so long as the plant is kept flourishing.

JAPANESE TREE PÆONIAS.—By MRS. H. BERGER, SAN FRANCISCO.

The new single and semi-double Japanese tree pæonias are exceedingly showy; their flowers are very large and artistically beautiful, and they have a loveliness peculiarly their own and without a grain of coarseness. Last year we got three in particular that are extraordinary in size

and beauty of blossoms. One is semi-double, white with pink shading; another is an extra large double rose colored variety, and the third has bright scarlet unusually large flowers and frilled petals.

CARNATIONS.—By FRED DORNER, LAFAYETTE, IND.

We grew 1,500 seedlings in 1890. These we have weeded down to ten. Of 2,000 seedlings of 1890 we have 125 on trial again this year, and have 2,000 seedlings of this year planted out. I must say there is a marked improvement in these carnations from year to year, and if the 1891 seedlings again on trial turn out as satisfactory as did those of the year before we shall have some surprises, especially in white and scarlet varieties. The following are the selected 10 from among 1,500 raised in 1890.

Blanche.—Flowers pure white, medium to large, fringed, petals loose, standing erect in middle. Free blooming, growth vigorous, habit branching, foliage pale green. Calyx never bursts.

Dr. Smart.—Pinkish cream color striped with crimson, flowers medium to large, and mostly one on a stout stem 12 to 15 inches long, and of excellent keeping qualities. Plants dwarf but vigorous.

Madame Diaz Albertini.—Flower very large, flesh pink, strong clove fragrance, keeps well. Calyx cup shaped and the points pressing against the petals and in this way stiffening them. Strong growing, free blooming during the whole season.

Mrs. Elizabeth Reynolds.—Flowers bright, clear pink, very large, delightfully fragrant. They also open early and keep growing larger for three or four days after they open. Plant vigorous, foliage heavy.

Purdue.—Flowers deep pink, even brilliant by gas light, large, globular and excellent keepers.

Richmond.—Flowers brilliant carmine, unusually large, of fine build and fringed, and they keep well. A very vigorous grower and has stout, stiff, long stems.

Sparlan.—Flowers brilliant carmine shaded with scarlet, very large and full, and borne mostly singly on strong stems 12 to 15 inches long. Of rather dwarf but vigorous habit; foliage long and of grassy appearance.

Western Pride.—Flowers white striped with bright scarlet, medium to large and calyx never bursts. A dwarfish, very free blooming variety with stout stems.

Wabash.—Brilliant crimson, medium to large, never bursts and of fine build. Growth very strong, foliage heavy, tendency free blooming. Stems strong, branching, need disbudding. Requires staking.

Wm. Scott.—Flowers of a Grace Wilder pink color, large, non-bursting and capital keepers. Growth vigorous but not rank; tendency very free blooming and from early to late.

Chrysanthemum Esther.—This is a beauty and the best of my recent seedlings. The color of the flower is a clear, delicate, flesh pink, without a trace of purple; the blossoms are very large, incurved and full to the center.

MISCELLANEOUS NEW PLANTS.—By H. A. DREER, PHILADELPHIA.

New double White Daisy Snow Crest.—An entirely distinct variety, and a great improvement on all existing sorts. Its habit of growth and size of flowers in comparison with older varieties are gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches



YUCCA FILIFERA.

long, are the purest white and full to the center when fully developed. They rise to a conical or sugar loaf form and well grown specimens will cover a silver dollar. As a plant for cut flowers it is invaluable.

Fuchsia triphylla.—An entirely distinct species, somewhat resembling the fulgens type, but with much smaller flowers of a brilliant orange scarlet, borne closely together on the ends of the branches in such a manner as to remind one of a small spray of bouvardias. The foliage also is quite distinct, being of a bronzy purple color.

Fern, Pteris tremula var. Smithiana.—A crested form of *Pteris tremula*. This plant forms large, deep green fronds, with the ends of the pinnae crested and tasseled, forming semi-pendant tufts. The whole plant presents an unique but graceful appearance, and will undoubtedly make a useful exhibition as well as florist's fern.

Hardy garden pink, Her Majesty.—An immense improvement on the popular Mrs. Simkins or Snow. The flowers are pure white, as large as a carnation and very free.

Clematis paniculata.—An old species that is but little known, which will undoubtedly take a leading place among the hardy climbers in the near future.

Allamanda Williamsii.—Entirely distinct from other varieties in habit of growth, it being quite dwarf and in no way resembling a climber, but forming a compact bush with trusses of bloom at every point. The flowers are $3\frac{1}{2}$ to 4 $\frac{1}{2}$ inches in diameter, of a rich yet delicate tint of yellow.

IVY LEAVED GERANIUMS.

Including newer varieties as well as introductions four or five years old, but all of exceptional merit.

Flambeau.—Flowers of enormous size, of a rosy scarlet color and a strong grower.

Robert Owen, rose red, very double and perfect in shape.

Sou. de Chas. Turner, one of the most desirable varieties producing trusses 6 inches across with flowers two inches in diameter, of a deep pink shade, feathered maroon in the upper petals.

Alice Crousse, deep magenta, flowers very large and free.

P. Crozy, a most distinct and pleasing variety, being the nearest approach to a scarlet yet introduced; habit of plant very dwarf and compact and almost as free flowering as a zonale.

NEW CHRYSANTHEMUMS.

Leila, an entirely distinct and novel variety on account of the peculiar twisting and overlapping of the petals, which gives the flower a grotesque but at the same time graceful appearance; this, together with its color of the most delicate, soft Mermet pink, will undoubtedly make it a valuable and popular cut flower variety.

Logan, a magnificent large incurved variety, flowers white, beautifully striped with rose, reverse of petals silvery pink.

Spring Grove, flowers very large, of a rich crimson color, reverse of petals deep bronze.

Mrs. H. B. Hall, a pleasing shade of pearl pink; flowers very large and of perfect shape, petals narrow. Will become a favorite cut flower variety.

Mrs. J. D. Eisele, almost as early as *Gloriosum*; rich orange shaded with crimson; flowers large and of good substance.

Rosstrevor, a grand variety and entirely distinct from all others; in color it is a pleasing shade of bronzy yellow and of large size, borne on stout, stiff stems; petals stiff and crisp, beautifully incurved, forming a rounded surface very similar in shape to the popular Harry E. Widener.

Mrs. W. F. Dreer, a magnificent variety; flowers large, reflexed, very double, the outer petals dark brown, shading to light in the center.

Mrs. R. C. Ogden, an immense symmetrical flower of a beautiful bright pink color, of good substance and form.

Rockland, flowers large, rich golden amber shaded with bronze, petals slightly toothed; fine flower, beautiful form and an improvement on Frank Wilcox.

Marguerite Graham, incurved, of perfect form; flowers erect on stout stems, when opening a pale lemon changing rapidly to pure white; an acquisition for cut blooms.

Rev. J. C. Hanna, very large perfectly formed flowers, pink with ends of petals tipped with silvery white.

Victor, one of the best; flowers exceptionally fine and perfect in shape; in color it is a rich golden yellow, slightly shaded with bronze.

CANNAS.

Among the recent introductions in cannas we are only able to name a very few varieties, owing to the extreme dry weather during June and July, but a limited number have flowered. Among the promising sorts are:

Admiral Gervais, somewhat on the style of Mme. Crozy, but smaller. The flowers are of a crimson scarlet edged with golden yellow, the lower part of the petals or center of the flower also being marked with the same color.

Countess Olivier de l'Etoile, a most beautiful golden yellow regularly and evenly spotted throughout with vermilion; undoubtedly the finest spotted variety that has come to our notice.

Chas. Henderson, a fine compact growing variety with broad, heavy petals of a rich cherry carmine; a beautiful flower; a distinct and handsome variety.

Emperor William, a compact growing variety, with flowers of a medium size of a crimson scarlet color.

Maurice Mussy, very large orange crimson flowers, free and distinct.

Nardy Pere, foliage green with purple stems and veins; flowers of fair size, very bright cherry carmine; promises very good.

Paul Bruant, large flowers with broad, bold petals, of a rich orange scarlet, very dwarf and free.

Secretary Stewart, bronzy purple foliage; flowers large, arranged in close, erect heads of bright cherry carmine.

The following varieties, to which we called attention last season, are showing up exceptionally fine and should be well known:

Alphonse Bouvier, this is the gem of the lot, and will undoubtedly take the place among crimson chrysanthemums among the scarlets.

Capt. Suzzoni, a fine spotted yellow.

J. D. Cabos, orange salmon.

J. Thomayer, rich orange scarlet.

P. Marquant, bright salmon scarlet.

Among the best of the older varieties, introductions of 1889, '90 and '91, the following are all good: Ampere, Antoine Crozy, Antoine Chantin, Bouchardet Aine, Comte Horace de Choiseul, Commandant Dubois, Chevallier Besson, Doyen Jo. Sisley, E. Chevreul, Edward Michel, Francois Crozy, Geoffroy St. Hilaire, Gen. Baron Berge, Henri L. Vilmoren, La Guille, Mr. Lefebvre, Mme. Antoinette de Allemany, Mlle. de Cruillon, Mr. Cleveland, President Hardy, Perfection, Princess Susignani, Souv. de Jean Charreton, Secrétaire Nicholas, Segonaire, Petit Jeanne, The Garden, Vitteculleur Gaillard, W. Pfitzer.

PLANTS AND FLOWERS HONORED BY THE MASS. HORT. SOC'Y.—By MR. ROBERT MANNING, Sec'y.

Awards by the Committee on Flowers 1891.
Silver medals at chrysanthemum show, November 10-13, 1891.

Pitcher & Manda, seedling chrysanthemum Harry May.

Henry A. Gane, seedling chrysanthemum Mrs. Jennie Jones.

First class Certificate of Merit.

March 31, Jas. Comley, seedling rose Oakmont.

June 27, John C. Hovey, seedling pansy Milton Hill.

August 1, H. H. Hunnewell, Lilium Wallichianum superbum.

January 31, Arthur H. Fewkes, Chivia miniata John L. Flanders.

March 31, John H. Pond, seedling carnation Golden Triumph.

November 10, T. D. Hatfield, seedling chrysanthemum Walter Hunnewell.

November 10, James Wheeler, seedling chrysanthemum Joseph H. White.

Honorable Mention.

January 31, Richard T. Lombard, new yellow carnation Golden Triumph.

February 7, John Fottler, Jr., new Tropaeolum.

February 7, Jackson Dawson, new lily from Formosa.

February 28, H. H. Hunnewell, Phloxopsis Stuartiana.

March 31, J. C. Chambers, Toughkenamon, Pa., new carnation Grace Darling.

August 1, Wm. E. Endicott, seedling gladiolus Lemoinei hybrid.

August 15, Dr. C. W. Weld, seedling gladiolus Dr. C. W. Weld.

September 1, James S. Cowles, Newport, R. I., chrysanthemum Golden Fleecy.

September 1, Jos. Breck & Son, Gloxinias lithusit hybrids.

November 10, John H. Dunlop, Toronto, Ont., new rose Toronto.

November 10, Sewall Fisher, seedling carnation No. 113.

November 10, C. D. Kingman, seedling chrysanthemums Eglantine and Kildare.

November 10, Pitcher & Manda, Short Hills, N. J., seedling chrysanthemum Annie Manda.

November 10, Norris F. Comley, seedling chrysanthemum No. 21.

November 10, T. D. Hatfield, seedling chrysanthemum Star of '91.

November 10, Geo. B. Gill, seedling chrysanthemum Adeline Bradbury.

November 10, Jacob Eaton, Jr., seedling chrysanthemums 1-91 and 2-91.

Awards by the Committee on Plants, 1891.

Silver Medals, Spring Exhibition.

March 31, H. H. Hunnewell, Amaryllis vittata.

May 9, Rea Bros., Spirea Japonica grandiflora and Spirea astilboides.

June 26, David Allan, Odontoglossum vexillarium Harrisianum.

September 1-4, Geo. McWilliam, Alocasia Sanderiana.

September 1-4, Pitcher & Manda, Short Hills, N. J., Pteris Victorica.

November 3-6, Geo. McWilliam, Dendrobium formosum giganteum.

First class Certificate of Merit.

March 7, Jackson Dawson, Hybrid Seedling Rose, a cross between Multiflora and Gen. Jacqueminot, a rapid grower and hardy.

March 7, Botanic Garden of Harvard University, Astilbe Japonica grandiflora.

June 6, David Allan, Odontoglossum vexillarium Allanianum.

June 6, Pitcher & Manda, Short Hills, N. J., hybrid Cyrtopodium Brownii and hybrid Anthurium No. 1.

September 1-4, Pitcher & Manda, Dracaena argentea striata.

September 26, Chas. Stover, Aerides Sanderiana.

Honorable Mention.

March 31, Lewis H. Farlow, Cattleya chrysotoxa.

Awards by the Committee on Flowers, 1892.

January 9, Thomas Graves, Cyrtopodium insigne var Gravesianum, F. C. C. M.

June 12, Jackson Dawson, new hybrid rose Rugosa X Jacquinet, F. C. C. M.

March 22-25, Siebrecht & Wadley, New York, seedling Nepenthes, F. C. C. M.

March 22-25, Sewall Fisher, seedling carnation (rich pink) Hon. Mention.

March 22-25, Joseph Talley, seedling carnations, Honorable Mention.

June 10-11, Thos. C. Thurlow, Fagus purpurea tricolor, F. C. C. M.

June 10-11, Jas. Comley, seedling rhododendron Mrs. Grover Cleveland, Silver Medal.

June 22-23, Jackson Dawson, seedling Philadelphus, F. C. C. M.

Awards by the Committee on Plants, 1892.

January 2, John L. Gardner, Cattleya Percivaliana, Silver Medal.

January 16, Joseph Talley, new dwarf Calla, F. C. C. M.

March 31, E. W. Gilmore, variety of Odontoglossum Psecatorei, spotted and shaded, F. C. C. M.

March 31, Edward Butler, Odontoglossum nebulosum, F. C. C. M.

May 21, John L. Gardner, Cattleya Reinerkiana, F. C. C. M.

July 2, John L. Gardner, Thunia Vitchii, F. C. C. M.

EASTON, PA.—Wm. F. Keller is building a new rose house 21x113, to be heated with steam by the overhead system of piping. He will later build a chrysanthemum house 70x12.

Hints on Hybridizing and Improvement of Plants.

By RICHARD BAGG, BRIDGETON, N. J.

[Read before the Society of American Florists at the Washington Convention.]

The only law relating to this subject that I am aware of is: "Like produces like or the likeness of some ancestor." Plant some variety of nasturtium seed, say Empress of India, and it will come true to kind; if we ask why this is so the answer is that for years the plants have been bred by careful selection of those for seed until the strain was fixed. In other words there are generations of ancestors behind it of the required type.

Plant General Jacqueminot rose seed and the result will be a lot of nondescripts with perhaps a few approaching its parent in size, color, etc. This seems to contradict the law, but on second thought it can be readily seen that it proves it, for the Jacqueminot has no more ancestors now than on the day it originated; all the plants of this variety in existence are young wood of the original plant. If we were to select from General Jacqueminot's seedlings one or more that are most like their parent, save seed from them, sow and select again, and so on for a hundred years more or less, we would get a strain of seed that would produce true General Jacqueminot roses. Of course any admixture of foreign pollen would have to be guarded against. Apples, pears, anything in fact, could be made to come true from seed by following this plan.

So far we understand this law and work in accordance therewith, but it does not satisfactorily account for fine varieties suddenly coming into existence, often by unaided nature; crossing and hybridizing may produce them, but if one why not always?

It is doubtful whether much advance can be made in this line unless seedlings are selected for crossing with a definite purpose in view, with a strict regard to get nearer a given ideal, and the ideal should be more than a flower; it should embrace the whole plant. Take the carnation for example; we want strong stems, compact healthy foliage as well as fine flowers, and the time is coming when size and color alone will not pass a carnation into favor; beauty of form and distinctive fragrance will be required in them as much as it is now in roses. People are learning to appreciate perfection in flowers faster than it is produced.

We cross variety A with Z, B with X, not knowing exactly how it will result, for though there surely are laws that govern this they have not been discovered, consequently we work in the dark. The probabilities are that the qualities of a plant are decided in the embryonic state, at the time of fertilization, but what are the influences that work when a fine variety of fruit or flower is called into existence? Are the conditions that govern its production hidden in the soil, the atmosphere, the plant, or is a combination of all required? A carefully kept record of all plants crossed, failures as well as successes, would help us to see into nature's plan of working; and if we could find time when making a cross to note the state of the weather, amount of moisture in the air, temperature, etc., also the condition of the plants, it would be interesting to notice if it affected the results in any way.

Hybridizing is crossing distinct species and often produces plants incapable of bearing seed—mules, in fact—and who can tell what a mule will be? Teas crossed with perpetuals belong to this class, and the seedlings from this cross



YUCCA GLORIOSA.

seem to have some element of discord in their constitution; many are weak growers, some start off as if they always intended to climb and never bloom, others seem strong and robust, but generally the flowers are not as large as those of either parent.

Roses can be crossed at almost any time except perhaps during the short winter days. Seed should be sown as soon as ripe and will germinate in from three weeks to three months. Seedlings from teas crossed will bloom when a few months old; those from teas hybridized will take from a few months to several years. I have some four years old that have not bloomed and they don't look as though they intended to.

Carnations are easily grown from the seed; a large proportion will be double with a great variety of colors, shades, markings. In every lot of seedlings there is almost sure to be a few equal to some of the named varieties, but we want something better and they come up scarce.

The best time for crossing carnations is in March or early part of April; later the sun makes the houses hot and the seed does not set as well and insects are more apt to interfere. When ripe pick and put

away. Sow soon after the middle of January, keep moderately wet until they germinate, then stop watering, do not give any more until the plants are large enough to pot; never mind the soil looking dry, it will not hurt them at that season and if watered they are liable to damp off. After potting treat the same as rooted cuttings and they will begin to bloom early in July. Those that do not bloom before it is time to house them are not apt to be as free as the earlier bloomers.

There has been some discussion as to which parent seedlings most resemble; the majority seem to think that the male has the dominating influence, but as this is an open question we will take a walk among the seedling carnations now beginning to bloom and see if any are advanced enough to help give light on the subject. There are 18 plants of Anna Webb crossed with Portia, 13 of them have the Portia foliage, while in 5 it is intermediate, only 3 in bloom, 2 scarlet, one crimson. Next, seven plants from Portia crossed with Anna Webb, two with foliage resembling that of Anna Webb, five with distinct Portia foliage, one in bloom of a crimson color. Then, nine plants of Hinze's Improved crossed

with Buttercup. (Hinze's Improved is a seedling resembling Hinze's White, but with a somewhat stronger stem). Five have foliage like Buttercup, the remainder intermediate, three in bloom with light yellow flowers and good stems. Next, eight plants of Hinze's Improved crossed with Lamborn, all like Lamborn in foliage and full of white bud and bloom, none averaging over a foot in height, both parents appear to be represented in the flowers, but until cooler weather it is hard to tell much about it. This makes 42 plants, the foliage in 30 of these resemble that of the male and 12 that of the female parent.

Have crossed a single white petunia with a colored double one and the results have been both double and single flowers, ranging in color from white through dull lilac to full red; but the division of color does not often run so uniform between the parents. Some seem to assert themselves no matter which side they are on. Take the Wootton rose for example, cross it with Bon Silene and the result is a red rose looking like extra poor Woottons; cross it with Madame Hoste, red roses again, reverse the cross but the results are similar; all the seedlings take after the Wootton in foliage, form and color of flowers.

The most remarkable seedlings I ever had was about 100 strawberry plants. every one was prolific and all except two or three bore large to very large berries. This set was produced by crossing Crescent with Sharpless, selecting a fine berry from the seedlings and crossing it with Parry. Have thought of trying these crosses again to see if the results would be similar, for it is such a strange experience to have nearly all the berries large when usually they run small with perhaps a few of a fair size in the set.

Should any one wish to grow some seedling strawberries be sure to take for seed the first berry that ripens on the selected plant, for it will give the best results, and the last berry ripen the poorest.

It can be said that our path is literally strewn with flowers, but, for all that, we are not exempt from thorns. Difficulties known and unknown stand in the way; unremitting attention is necessary to attain any degree of excellence, though so much has been done in the way of improvement of plants the work is only in its early stages of development. The field of possibilities spread out before us is greater than that of Columbus when he discovered the New World, or of Ponce de Leon when searching for the fabled "Fountain of Youth."

Yuccas.

Although Yucca is not an extensive genus of plants, some of the species are very well known in gardens, *Y. filamentosa* in our outdoor gardens in midsummer, and *Y. aloifolia* among fine-leaved plants in our greenhouses.

The genus Yucca is strictly American and ranges from Central America through the Southern States of this country, extending north in the case of *Y. angustifolia* to Dakota. Engelman recognized fourteen species, and Baker, of Kew, made half as many more out of what Engelman considered mere varieties. One of these varieties, namely *Y. baccata* var. *australis*, has now, by general consent, been raised to specific rank with the specific name *filifera*. Brandegee has added *Y. valida* from Mexico; and Baker has added *Y. Hanburii*, which is said to come from the Rocky Mountains. This gives us seventeen species.

In the last report of the Missouri Botanical Garden we find a very full and detailed account of the yucca moth and yucca pollination, together with several fine plates of the insect and its work, also some beautiful plates of the more important species of yucca. And through the courtesy of the energetic director we are enabled to place some of these pictures before our readers.

The seventeen species above referred to are:

Yucca aloefolia.
Y. Yucatanana, *Y. Guatemalensis*.
Y. Schottii, *Y. macrocarpa*, *Y. valida*.
Y. Treuleana, *Y. baccata*.
Y. filifera, *Y. brevifolia*, *Y. gloriosa*.
Y. rupicola, *Y. angustifolia*.
Y. elata, *Y. filamentosa*.
Y. Whipplei and *Y. Hanburii*.

YUCCA FILAMENTOSA is the one we find so much of in all Northern gardens, and where it seems to make itself as much at home as it does in the Southern States, its native habitat. There are many varieties of it, distinguished by differences in their flowers, habit of growth, or foliage, and an exceedingly pretty one has variegated leaves. All are hardy.

YUCCA BACCATA is an arborescent species indigenous to California and Texas, in the arid zone. In some parts of the desert regions of Texas it forms open forests. But in gardens or greenhouses it never forms a good-looking plant, at least I have never seen one. It is precariously hardy in the Middle States. But in my opinion it isn't worth growing as a decorative plant.

YUCCA FILIFERA is the most gigantic of all yuccas. It is indigenous to the arid plains of Northeastern Mexico where it forms broad-headed, much branched trees, 30 to 50 feet high, with short trunks 9 to 14 feet in circumference. A most curious thing about it is that instead of the panicles of bloom being upright as in our own garden yuccas, they are pendulous. This species is the *Palma* of the Mexicans; they plant it around their houses as a hedge plant. It is not hardy in the North, but in the Gulf and Pacific regions it may be cultivated. It is much grown now in the gardens along the Mediterranean. Our illustration is of a plant growing at the Villa Thuret, Antibes, France; from a photograph taken in 1891.

YUCCA GLORIOSA is indigenous to our Southern States, and it is a very beautiful and much planted species. It assumes a branched tree form, but not the proportions of a tree. In the Northern States it is not hardy. Our illustration represents a garden-grown plant in France, and while it is perfectly true of a young plant it gives us very little idea of what a handsome object a mature specimen or group of plants of this is when in bloom. There are a good many varieties of it in cultivation, and one of the best and commonest is called *recurvifolia*.

YUCCA WHIPPLEI is a stemless species found on dry rocky hills from Monterey to San Diego, and thence into Arizona. Our illustration shows a group of "plants in full bloom, from a photograph taken near San Luis Obispo, Cal., in 1873," and are the prettiest set I have ever seen. Some botanists insist on separating this species from the genus *Yucca* altogether and calling it *Hesperoyucca Whipplei*.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

Horticultural Education.

On page 998 of the AMERICAN FLORIST for June 2 we find this quaint little piece of information:

"A pleasing sign of the times is the action of the Leland Stanford Junior University, Palo Alto, Cal., in the establishment of a department in which may be obtained a broad education in horticulture and floriculture, etc."

When this project was first suggested some time ago, I, and no doubt many others, passed it by as an idle dream of a few visionary men. But since an effort is really being made to establish such an institution it is my opinion, after due consideration, that every practical man in this calling or profession should oppose it.

This business is not suffering from want of educated help. There are over and enough intelligent and practical men in this calling. Whatever trouble there exists should be laid at the feet of unreasonable employers. Because one is an employer and in business for himself is no evidence that he is an intelligent and practical man. Floriculture is suffering from being overdone. There is to-day many a one in business for himself who is racking his brain how to make both ends meet, and who would never have gone into business for himself had he had better luck in finding an agreeable situation. Many can testify that to one agreeable situation there are a dozen or more intolerable ones, and they are made so because the employer lacks in judgment, intelligence, and, above all, in practical knowledge of the business. These are generally men who failed at their first calling and were enticed into the florist business through the foolishness of practical men who are too swift with their pen.

Every calling places barriers in the way to avoid a rush; only we open every nook and corner and invite everybody to come into the business and promise to post them in every detail, four times a month, not saying anything about books, to which there is no end. This is not sufficient, we must open a college and prepare more recruits for the business.

Can those who are foremost in this project prove to us that such institutions have proven successful anywhere? Has one produced a noted gardener? I have yet to hear of one. Further, have these gentlemen who created this institution considered the degrading position that many of their graduates must occupy in this industrial world? They should know that an educated person is also cultured; let them take a trip around and see for themselves, and they will be astonished to find what a low and servile opening awaits their shining lights. This deplorable fact will deter many from going out as employees, and the result will be they will start for themselves. Another question—is California a proper state? I doubt it; the geographical position is against it; a Palo Alto graduate could not take charge of a commercial place in the northern states the first year; he would have to put in one year as a helper.

—THESSIMIST.

The "Snake Tree."

Not to be outdone by the journals who are rehashing the old serpent stories *Frank Leslie's Weekly* brings the "snake tree" again before the gaping public, with some slight variations from the original tale. For the amusement of our readers we print below some extracts from this revised version:

"A late traveler was in Mexico on a botanical expedition. One day he observed a dark object on one of the outlying spurs of the Sierra Madre Mountains, which so excited his curiosity he examined it carefully through his field-glass. He saw it was a tree of such an unusual appearance he decided to visit the spot. He rode on horseback to within a few rods of the summit, when he came to an abrupt rise he could not climb. On the top stood the tree. He saw it had long, slender limbs drooping like a weeping willow. They had a slimy, snaky appearance, and at times the whole tree seemed to writhe. This curiosity led him again and again to visit the spot to learn more, if possible, about this horrible tree. One day he saw a bird circle about it for some time and then alight on the top. Then the branches began to move and curl upward. They turned around the bird, which began to cry, and drew it down until he lost sight of it. The botanist tried, as he had several times before, to climb the steep. The rock on which he stepped loosened and fell, himself with it. He was not injured, and he found that the rock had left quite a cavity. He looked in and saw quite a cavern, and felt a current of fresh air blowing on his face. With his trowel he enlarged the hole so as to admit of his ascent. He saw the flattened body of the bird fall to the ground, which was covered with bones and feathers.

"He approached the tree as closely as he dared. It was not above twenty feet in height, but covered a great area. Its trunk was of prodigious thickness, knotted and sealy. From the top of this trunk, a few feet from the ground, its slimy branches curved upward and downward, nearly touching the ground with their tips. On his venturing to touch lightly one of the limbs it closed upon his hand with such force it tore the skin when he wrenched it away.

The next day he visited the tree, carrying several chickens with which to feed it. The moment he tossed the fowls into the branches they began to sway to and fro with a snaky motion. After they had become gorged they were perfectly quiet, and he ventured to approach and examine them closely. They were covered with suckers similar to those of the octopus. The blood of the fowls had been absorbed, leaving crimson stains on their surface. There was no foliage whatever on the tree."

The clipping from which the above is taken was sent us by Emily Louise Taplin who writes: "I once wrote a sportive account of a plant that devoured a botanist, all but his boots and waterbury, which was copied into the patent insides as a fact, but the above makes my story seem very small."

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, American Beauty, Perles, Duchess of Albany, La France, Niphotos, in 2 3 and 4 inch, Gontier, Mme. Hoste, Meteor, C. Mermet, Wootton, Bride, Bon Silene in 2 and 3 inch.

PRICES GIVEN ON APPLICATION.

A few fine Hybrids and Everbloomers left.

PALMS.

Latania Borbonica, fine large plants at \$4.00 and \$6.00 each. A few left at \$7.00, \$15.00 and \$20.00 per 100.

We will be pleased to see our friends that are passing through the city at any time. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

3000 JACQUEMINOT ROSES,

from 3 in. pots, \$5 per 100; 4 in. pots, \$6 per 100, 2,000 Begonia Rex from 3 in. pots, \$5 per 100, 3,000 English Ivies from 4 in. pots, 2 ft. high, \$4 per 100.

5,000 English Ivies, same size, lifted from open ground, \$3 per 100.

10,000 Violets, Marie Louise, strong June cuttings, rooted out door, positively no disease, \$2 per 100.

2,000 Bovardia Davidsonii and Alfred Neuner, from 3 in. pots, \$5 per 100.

500 pots of *Acorus variegata*, strong plants, fine for trimming in funeral work, \$10 per 100. All guaranteed to be vigorous and healthy. Will exchange on reasonable terms for thrifty young stock of Bon Silene roses.

JOHN RECK, Bridgeport, Conn.

When ordering mention AMERICAN FLORIST.

THE

NEW ROSE

BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

ROSES.

TEAS \$30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

ROSES.

Waban, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphotos, La France, Bon Silene, Souv. d'un Ami. Fine, healthy stock from 2½-inch pots. \$5.00 per 100; \$45.00 per 1000.

SMILAX from 2½-inch pots, strong, \$3.00 per 100; \$25.00 per 1000. Send for price list.

WOOD BROTHERS, Fishkill, N. Y.
Mention American Florist.

ROSES.

1000 ALBANY.

1000 LA FRANCE.

1000 MERMET.

From 3 and 3½-inch pots, in fine condition, equal to 4-inch pot stock.
Price and samples on application.

NATHAN SMITH & SON, Adrian, Mich.

FORCING ROSES.

Leading sorts, 3 and 4-inch pots.

A. S. MacBEAN, Lakewood, New Jersey.

ROSES. FIELD GROWN, FOR FORCING.

GOOD, STRONG BUDDED PLANTS ON MANETTI ROOTS.

HOME GROWN MUCH SUPERIOR TO IMPORTED STOCK.

Mrs. J. H. Laing, Ulrich Brunner, Gen. Jacqueminot, Magna Charta, and a full list of leading Hybrid Perpetuals for greenhouse and garden planting.

LARGE LOT EXTRA FINE MOSS AND CLIMBING ROSES.

Our usual full assortment of Fruit and Ornamental Trees, Hardy Shrubs, Hardy Plants, Bulbs, Greenhouse Stock, Etc.

LET US ESTIMATE ON YOUR LIST OF WANTS FOR COMING SEASON.

Fall Catalogue and Trade List FREE, ready in August.

THE STORRS & HARRISON CO.,
PAINESVILLE, OHIO.

THE ATTENTION OF FLORISTS

and others is invited to our immense stock of **FIELD GROWN**

HYBRID PERPETUAL ROSES for FORCING,

Ready for Shipment October 1st.

The plants are principally 1 year budded low on Manetti, all of our own growing (which are superior to the imported) and embrace the best kinds suitable for the purpose. We have also a fine lot of Climbers and Mosses. Parties desiring particular varieties should send in their orders early as possible. Prices compare favorably with those of European growers.

CORRESPONDENCE SOLICITED. ORDER EARLY. CATALOGUE FREE.

ELLWANGER & BARRY,

Mount Hope Nurseries,

ROCHESTER, N. Y.

ROSES FOR PLANTING,

FINE HEALTHY STOCK, NONE BETTER.

Perles, Sunset, Hoste, Mermet,

Bride, Waban, Albany,

La France, Beauty, Niphotos
and *Mme. P. Guillot,*

from 3 and 3½ in., latter equal to 4 inches,

Also fine **CHRYSANTHEMUMS,**

2½, best varieties.

Write for prices. **QUALITY** our motto.

BROWN & CANFIELD,

SPRINGFIELD, ILL.

NOTICE.

Our roses are all sold.

We are now booking orders for Field Grown Carnations, of which we have about 50,000 plants. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

SMITH, The Florist,

GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

FERNS.

A. CUNEATUM.

In fine shape to shift for winter cutting.

2-inch, \$4.00 per 100; \$30.00 per 1000.

3-inch, 5.00 per 100; 45.00 per 1000.

8-inch, 5.00 per dozen.

ROSES.

Mme. Chas. Wood, very strong, \$50 per 1000.

FORCING VARIETIES.

Meteor, Niphotos, Perle, Gontier, Guillot, Albany, Mermet, La France, Sunset, Beauty and Hoste.

A few more fine plants on hand in 3-inch pots, at \$5.00 per 100.

M. A. HUNT, Terre Haute, Ind.

Mention American Florist.

• • • • •
OUR NEW
TRADE DIRECTORY

AND

REFERENCE BOOK

FOR 1892

IS NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

Philadelphia.

The past week has been given up to getting everything in order for the trip to Washington. It has been very warm, but is now (Saturday) delightfully cool, and it is to be hoped will continue so until the end of next week at least.

Severe thunder storms have visited this neighborhood recently, doing much damage. Thursday evening, 11th inst, lightning struck the house of Thomas Butler, neighbor to Edwin Lonsdale, knocking out the gas bell, no one was hurt, however, as the young man who slept in this part of the house fortunately had not retired.

Last season's business must certainly have panned out pretty well, as at least 10 per cent will have been added to the area of glass in this neighborhood by the time winter sets in. It's the same old story when there comes a glut in the market and prices drop a little, "Oh, my! such prices are ruinous, there'll have to be a change soon or somebody will go by the board, we won't sell enough this season to pay for the coal, etc.," but every summer the regulation crop of houses springs up and everybody seems happy. There has been a great deal of funeral work made up about here this summer, some florists say more than ever before; white flowers have certainly sold very well, the demand more than equaling the supply.

B. F. Dorrance, of Wilkesbarre, has retired and the business will be continued by George Fancourt, who has been with Mr. Dorrance for some years as foreman. We wish him success. K.

Boston.

Cut flower trade continues about as reported last week. Carnations quite scarce and asters coming in abundantly now. Roses are improving in quality.

There has been several very fine collections of lilies shown at Horticultural Hall by W. C. Strong. On Saturday, August 6, the display included macranthum, Wallichianum superbum, elegans, pictum, auratum and auratum rubrum vittatum. August 13 was special prize day for gladioli, and grand displays were made by A. Galbraith, J. W. Clark, C. G. Weld, R. T. Lombard and others. A seedling Gandavensis from W. E. Endicott was awarded a first class certificate of merit. The color was entirely new, a deep carmine lake, and very striking. C. M. Atkinson showed some fine gloxinias. Mrs. Martin exhibited a grand lot of achimenes and other fine plants including a well grown Ixora Williamsii. Daniel Duffley had a large lot of Amaryllis Belladonna which were much admired. Norton Bros. showed a vase of blooms of Magna Charta roses and scored one point against those who have been claiming that a second crop could not be had from this variety.

Quite a stream of visitors this week in Boston, many of them on their way to Washington. Among the number were John McLaren, Sup't of Parks, San Francisco; D. C. Jones, Detroit; John H. Taylor, Bay Side, N. Y.; Jos. A. Dirwanger, Portland, Me., and George H. Moss, Woodstock, Vt.

PORTLAND, ME.—Mr. Alex Wallace has been dangerously ill with diphtheria, but seems now on the road to recovery. W. E. Morton has gone to Bar Harbor for the summer campaign.

WM. HENRY MAULE and wife are now in Europe.

Worcester, Mass.

I saw the first asters in the market the other day; they always remind me very forcibly that the summer has nearly slipped by and that autumn and good trade are coming along rapidly. Gladioli, asters, very fine candytuft and mignonette are very plentiful, and we are just beginning to get some very good roses; carnations are still hanging off, but outside carnations will be in bloom in ten or twelve days and then we shall have some good stuff. The swish of the paint-brush and the rap of the glazier's chisel, heard around the greenhouses, tell that the florist, like the busy ant, is getting ready for the winter. There was rather a small display at the horticultural exhibition. The severe storm that we had the four preceding days spoiled most of the flowers. A very great improvement was noticeable in the baskets, both amateur's and florist's. Mrs. C. E. Brooks, H. F. A. Lange and Mrs. Thos. Ward showed exceedingly good taste in their arrangements. SEEDLING.

A TYPOGRAPHICAL error occurred in the advertisement of Thomson, Anderson & Kennedy in our Convention Supplement. The firm is located at 3132 Olive street instead of Vine street as it appeared in their advertisement.

THE ONION seed crop in Connecticut is reported as looking extra well.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—By a young florist, in cut flower store or private place. Has a thorough education. Best of references. State wages. J. A. care American Florist, Chicago.

SITUATION WANTED—By married man of 30 years experience, honest, thoroughly up in plant and bulb culture, and floral work made a specialty of. Address R. care American Florist, Chicago.

SITUATION WANTED—As foreman or manager. S. thoroughly posted in the growing of roses, carnations, decorative and bedding plants, forcing of bulbs; good references; state wages. N. 129 N. Clark St., Chicago.

SITUATION WANTED—By a first-class florist, in a private or commercial place; understands roses, carnations, bulbs and plants of all sorts. Also making up designs. Over 14 years' experience. Married. Address D. R. care American Florist, Chicago.

SITUATION WANTED—By a first-class rose grower to take charge of commercial place. Good designer and decorator and all round man; married, sober and energetic; 18 years' experience. Good references. Address J. C. Grower, Chicago, care American Florist, Chicago.

WANTED—PARTNER—Great chance for single German florist and rose grower to partner in good nursery business in large western town. \$500 required. Address B. care American Florist, Chicago.

WANTED—A man to take charge of commercial plant of greenhouses, to grow mostly roses and cut flowers. Must have good references—others need not apply. Address M. A. WILHELMY, Cleveland, O.

WANTED—A competent gardener and florist, to take charge of garden, lawn and greenhouse; single; no pretensions. Best of references required. Permanent employment if satisfactory. O. R. LONG, Supt. State Asylum, Ionia, Mich.

WANTED—A good florist; a man of practical knowledge and experience in this profession—none other need apply. Freely married man. Must be a single man—German preferred. Address OTTO BAUMANN, 403 S. Water St., Minnetonka, Minn.

WANTED—A man to take charge of a commercial plant of greenhouses, to grow mostly cut roses and small rose plants. Freely married man. Must have good references—others need not apply. Address LA ROCHE & STAHN, 101 Chestnut St., Philadelphia, Pa.

WANTED—(in some western city) a situation with opportunity for progress, by a young man of energy and aspiration, who has had two years experience in this country and a short period of English discipline in the business. Address ARTHUR H. BOUL, St. Joseph, Mo.

WANTED—Rose grower and quick man of skill and energy. Special conditions make this rare opportunity for one or more men of approved ability. Roses (ferns, orchids, palms, bulbs, cut flowers, etc.) Address stating terms and experience. J. T. McILHANNON, Memphis Tenn.

WANTED AT ONCE—A good, steady, sober, honest rose, plant and cut flower grower; also must have some experience in designer—no others need apply. Wages \$30 to \$40 and board. References required. Address Wm. A. BOCK, North Cambridge, Mass.

WANTED—A reliable and competent man to take charge of a number of new commercial greenhouses. Must be a first class rose and carnation grower and familiar with the forcing of bulbs. I require the best of recommendations and must be a good and permanent position in a pleasant place to a competent man. I will be to Washington, D. C. during the next few days. Correspondence care J. C. Vaughan, National Rifle's Armory. At Philadelphia August 25, address care H. A. Dreer. At Chicago August 25, address care J. C. Vaughan. If any one in the vicinity of these places contemplating a change I would like to meet you. In answering address at any of the above places giving full particulars, references, wages wanted and send a duplicate to my address at Sioux City, Iowa. J. C. RENNISON, Sioux City, Iowa.

FOR SALE—David Smith boiler No. 5, in use 6 years. Address J. B. REYNOLDS, Marblehead, Mass.

FOR SALE OR RENT—Greenhouses and stock, in growing town with college; no opposition; terms easy. Address S. S. care American Florist, Chicago.

FOR RENT—Three greenhouses in Chicago, well stocked, doing a good retail line. For particulars address Box 42, care Am. Florist, Chicago.

FOR SALE—A florist acre with greenhouses attached, doing a first-class business. For particulars apply to W. ELLISON, 2022 Olive St., St. Louis, Mo.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City. Stock and houses in A condition. Houses all planted; mostly American Hearty and La France. Will sell on easy terms. Address ROSE GROWER, care Am. Florist, Chicago.

FOR RENT—Hothouse on St. Ives Park farm corner Grand avenue and Ridgeland avenue Chicago, one-fourth mile north of Galewood on St. Paul railroad, will be rented with or without plants for cash rent or on shares. Apply to S. P. BOND, on the farm, or to Edgar Holmes, 88 Washington St., Room 55, Chicago.

FOR SALE AT A BARGAIN—Only greenhouse in city; 600 sq. ft. glass, good growing stock, repair, steam and water heating, fine stock of plants, splendid trade all year. 5 acres land, small fruit—big crop this season. Everything fully prepared for this winter's bloom. Commodious dwelling house, barn, etc. Will exchange for farm or other property. Write W. J. BIGGAR, Fremont, Neb.

FOR SALE CUCUP—3 greenhouses 40x12, built in 1880 on large lot in town, with sashes, frames, tools, pots, winter stock of carnations, bonvards, violets, chrysanthemums, etc. Heated with Meyers hot water boiler, good local trade in town of 4,000; near depot, 6 1/2 miles from Phila.; established stand in 12th street market, Phila.; a bargain, \$1,200, half left on mortgage. 12th Street Market, Philadelphia.

FOR SALE Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam, good growing stock, coming into bearing, recently built; 30 acres of land, abundance of fruit; large house containing 15 rooms, new; water, within 100 feet of the multiple of miles from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARKIN, Toughkenamon, Chester Co., Pa.

For Sale or to Let.

Florist's establishment, six miles from Boston, consisting of 4 greenhouses and Violet pit, all heated by hot water. Cottage 7 rooms, 20,000 ft. land, Greenhouses well stocked. Good local trade. Address, M. care W. J. Stewart, 67 Bromfield St. BOSTON MASS.

FOR SALE.

One No. 5 Weathered boiler and 920 feet 4-inch pipe. GLASS—4,000 feet single 4 inch, 1,500 feet 3 1/2 inch double 4 inch. 33 inch 300 feet, glass 6x8 single. 16,000 pots, various sizes. 3,000 Geraniums. 5,000 Chrysanthemums. 2,000 Coleus. 100 Fuchsias.

Write for full information to S. B. FIELD, Roselle, N. J.

FOR RENT.

Twenty greenhouses, all heated by steam, in a large western city; well located for business, being within one block of principal cable line and having a bus line to the place. The place is well known and does a large shipping business in adjoining states. One half of the houses are at present devoted to cut flowers, balance to plants. Stock to be sold, etc. to be bought by the one leasing the place. This is a good opportunity for anyone who has the capital to run a place of this size. And I will rent the place low as other business in which I have engaged occupies my entire time.

Do not answer this unless you mean business and have the capital which a place of this size demands. Address.

BOX 50, care Am. Florist, Chicago.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Mention American Florist.

KENNICOTT BROS., WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL, Wholesale Florist and Dealer in FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.
Store Closes Night 9 P. M.; Sunday 2 P. M.

McKELLAR & SPERRY, Wholesale Commission Florists

128 & 129 MICHIGAN AVE.,
Near Madison St., CHICAGO.
Store open Day and Night, excepting Sundays we close at noon.

H. L. SUNDERBRUCH, WHOLESALE FLORIST

4TH & WALNUT STREETS,
Cincinnati, O.

WELCH BROS. WHOLESALE FLORISTS

165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

DAN'L B. LONG, COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

C. A. KUEHN, (Successor to ELLISON & KUEHN), WHOLESALE FLORIST,

1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs,

Wholesale Markets.

Cut Flowers.

	BOSTON, Aug. 16.	NEW YORK, Aug. 16.	PHILADELPHIA, Aug. 16.
Roses	2.00@ 4.00	2.00@ 3.00	2.00@ 3.00
Carnations	1.00@ 1.50	1.00@ 1.50	1.00@ 1.50
Gladiolus	2.00@ 3.00	2.00@ 3.00	2.00@ 3.00
Pink Pond Lilies	8.00	8.00	8.00
Adiantum	1.00	1.00	1.00
Smilax	12.50	12.50	12.50
Asparagus	30.00	30.00	30.00
Roses	2.00@ 3.00	2.00@ 3.00	2.00@ 3.00
Carnations	1.00@ 1.50	1.00@ 1.50	1.00@ 1.50
Valley	6.00	6.00	6.00
Gladiolus	5.00@ 1.00	5.00@ 1.00	5.00@ 1.00
Sweet peas	10.00@ .25	10.00@ .25	10.00@ .25
Asters	5.00@ .75	5.00@ .75	5.00@ .75
Adiantum	1.00	1.00	1.00
Smilax	15.00	15.00	15.00
Roses, La France, Albany, Brides	2.00@ 3.00	2.00@ 3.00	2.00@ 3.00
Parlo, Niphetos	2.00@ 3.00	2.00@ 3.00	2.00@ 3.00
Marle Guillots	2.00	2.00	2.00
Carnations	5.00@ 1.00	5.00@ 1.00	5.00@ 1.00
Sweet peas	35.00@ .50	35.00@ .50	35.00@ .50
Valley	6.00	6.00	6.00
Cornflower	.50	.50	.50
Water Lilies	15.00	15.00	15.00
Smilax	75.00@ 1.00	75.00@ 1.00	75.00@ 1.00
Asters	1.00	1.00	1.00
Roses, Parlo, Niphetos, Gontier	2.00@ 3.00	2.00@ 3.00	2.00@ 3.00
Carnations, Ionk	1.00	1.00	1.00
Smilax	1.50@ 2.00	1.50@ 2.00	1.50@ 2.00
Asters	.50@ .75	.50@ .75	.50@ .75
Auratum, doz	.75@ 1.00	.75@ 1.00	.75@ 1.00
Gladiolus, doz	.05@ .60	.05@ .60	.05@ .60

Peck & Sutherland, Successors to WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

NO MORE WHITE STRING! For stringing Smilax and tying bouquets, use our FLORISTS' GREEN THREADS.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
— WRITE FOR SAMPLES AND PRICES. —

FLORAL DESIGNS. The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, J. HORACE McFARLAND, Harrisburg, Pa

CUT SMILAX. Summer prices, 15 cents per string. Special attention to orders by wire. J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

When writing to any of the advertisers on this page please mention the
AMERICAN FLORIST.

BURNS & RAYNOR, 49 West 28th Street, NEW YORK, WHOLESALE DEALERS IN AND SHIPPERS OF Choice Flowers.

EDWARD C. HORAN, WHOLESALE FLORIST 34 W. 29TH ST., NEW YORK.

SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN, WHOLESALE FLORIST, 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY, WHOLESALE DEALERS IN CUT FLOWERS 51 W. 30th St., NEW YORK.

FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART, WHOLESALE FLORIST 117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRs, WHOLESALE FLORIST, 111 WEST 30TH STREET, NEW YORK CITY.

WHOLESALE FLORISTS

Le Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK, Wholesale Florist 38 S. 16th Street, Philadelphia, Pa.

Toronto.

Not having much spare time this week I visited some of the private establishments in the heart of the city, very pretty old places they are too, mostly owned by some of the oldest inhabitants. They are getting few and far between now though; as the old people die off the young ones cut them up into building lots, and the taxes on them must be quite a burden.

The first place visited was Judge McLennan's where Mr. D. Moodie is the gardener. There only two small, low span-roofed houses here, but Mr. M. grows some of the finest adiantums in the city, some plants of cuneatum and gracillimum being nearly 4 feet through, also a very large plant of *A. assimile*. There are also quite a few orchids looking the picture of health. A plant of *Oncidium incurvum* had four very long spikes of flowers, *Cypripedium Dominianum*, *Chysis aurea*, *Oncidium tigrinum* were also flowering well. Outside, it being a very shady place, not much is done in the way of bedding, but the ferns were most luxuriant. Altogether a lovely spot for a hot day.

A few blocks from this place is the residence of H. H. Cook, Esq., W. G. Wadds being the gardener. Here was to be seen a large house of very fine grapes, and a magnificent lot of glorioxias, of which Mr. Wadds makes a specialty.

The next place was The Grange, where Mr. Goldwin Smith, of literary fame, lives. The greenhouses here are very old, but Mr. Chappell, the gardener, manages to grow plants somehow. The whole place occupies a large square, and is a veritable oasis in a desert of bricks and mortar. There are many large fine old elm trees which are objects of great solicitude to Mr. Smith.

Sir Casimir Gzowski's place, a very large block, is another lovely spot for the middle of a city, so shady and cool, and so many pretty little vistas through the trees of smooth green lawn and gay flower-beds. The greenhouses are very old fashioned, having been built over thirty years ago, and are being replaced by more modern structures. Mr. R. Marshall is the gardener.

I am glad to see that your correspondent, G. S., of Buffalo, has come out in defense of his country, and I think his idea of an international show is a capital one, and also that Buffalo is the right place to have it, and the time summer, 1893, when the country is over-run with World's Fair visitors. G. S. speaks of me as the spokesman of the "Canucks," that is an office, however, which I can scarcely lay claim to, but perhaps I may be allowed to say for the "Canucks" of Toronto at least, that we have heard of those villages mentioned by G. S., viz., Boston, Philadelphia, New York, in fact some of us have actually visited these villages, and have gone so far out of our way as to call on some of the principal horticultural establishments there, both private and commercial, and unless these establishments keep their best plants in the cellars and caves I don't see my way to taking anything back that I said before, and I will say again that there are as good (if not better) specimens of stove and greenhouse plants in Canada (or Toronto, if you like) as can be shown on this Continent and (as G. S. says, talk is cheap) we in Toronto are willing to send over a car-load or two to an international show next year at Buffalo as suggested by G. S., but we want to show against some of the people from those villages mentioned above, we don't be-

long to the genus "hog" and have no desire to make a show of Buffalo. I wish it to be remembered that I said in my former letter that our show could not be beaten on this continent for the quality of the stuff. I am well aware that as regards quantity we should be nowhere.

Now I would say that if an international show is held in summer 1893 it ought to be announced in good time, as it is very possible that some European growers might wish to take part in it. There is no reason why it could not be made the biggest and best horticultural show ever held in America and be of great benefit to the profession generally.

E.

Growing Bulbs in America.

ED. AM. FLORIST.—Having noticed several articles about growing bulbs in America lately, I thought I would let you know what we have been doing down in this part of the world.

Last year after our Harrisii were through blooming we planted them out in the nursery and in the fall dug them up and found that they had multiplied considerably; there were from 2 to 3 large fine solid bulbs and a number of smaller ones. The bulbs were far superior to any we have bought and we also got much finer blooms from them than from the bulbs we had bought. Talking about Roman hyacinths, one old resident here planted out a few bulbs a number of years ago and now he has about an acre and the bulbs appear to be as fine as imported. He cuts large quantities of bloom during January and February every year.

There is a Frenchman here who has about one acre in bulbs and he supplies this market with about all the hyacinths and narcissus blooms that are used. He had them in bloom and of much finer quality from open ground than were grown from imported bulbs in the greenhouses, more especially the hyacinths. Some of these bulbs he has had for 20 years and they appear to get finer every year. He has raised some very fine seedling hyacinths and for several hundred yards round where his bulbs are planted the rains have washed the seed around and you can see hyacinths blooming everywhere.

Twenty years ago he planted one bulb of the State German narcissus and to-day he could easily dig 20,000 bulbs. He furnished us with narcissus cut flowers all last winter and they were the finest we have ever had, much stronger and thrifter than the paper white, though of course not so pure white. We shipped some to St. Louis and found they sold well there, and we feel confident they could be shipped to any point in America with perfect safety all during the winter. I predict a great future for the bulb business in Texas.

R. NICHOLSON.

Dallas, Texas.

Sea Sand as Soil.

It is hard to think of anything more barren, more destitute of fertility, than sea sand. In connection with some studies of the chemistry or vegetable production in the laboratory of Wesleyan University we have been growing plants in just such sand, brought from the shore of Long Island Sound. To divest it of every possible trace of material which the plants might use for food, except the sand itself, it was carefully washed with water and then heated.

The young man who prepared the sand for use, in his zeal to burn out the last vestiges of extraneous matter, heated the iron pots in which it was collected so hot that they almost melted. The sand was put into glass jars, water was added, and minute quantities of chemical salts, which plants take from the soil, were dissolved in it. In the sand thus watered and fertilized, dwarf peas were grown. Peas of the same kind

were cultivated by a skillful gardener in a rich soil of a garden close by, and grew to a height of about four feet, while those in the sand, with water and the minute chemical salts, reached a height of eight feet.—Prof. Atwater in *November Century*.

Growing pea straw (spindling it we presume) eight feet long in sea sand and four feet long in rich ground out in the garden is nothing strange; we would rather have a comparative test of the quantity and weight of the peas produced in both cases, than the length of the straw. Last winter we stored a lot of dwarf French cannas under the greenhouse bench on a hard clay floor which the roots did not penetrate, or try to, and about the end of March some of the plants had grown five feet high, that, planted out of doors in summer, never were more than three feet. Old stocks of erythrina laid on the same floor threw out spindling shoots seven feet long that didn't make more than five feet shoots outside. And in our cellars we have before now found old tubers of Madeira vine run out shoots twice as long as they would in the open air. But what was the good of these attenuated spindles? They were worse than worthless. Had they been grown in pure, moist sand, in the open air, however, all the shoots they would have made would have been useful shoots, however, green and healthy, and they would have flowered well, but when it should come to ripening a crop of fruit then their emaciated nature would reveal itself.

Sea sand as soil is absolutely worthless in itself. Mixed into stiff land, however, it has an opening, correcting effect, and when liberally enriched with composted muck, cow manure, or the like, many soft-wooded plants will luxuriate in it, or rather in the manurial substances mixed with it, so long as it is kept moist.

For propagating purposes, many florists, near the sea coast, use it altogether, and find that cuttings of common plants strike in it as readily as they do in pit sand. Some might think that the saline matter in the sea sand would have a deterring effect upon the spread of cutting-bench mould, but no, this fungoid pest flourishes in sea sand just as bravely as in river sand.

W. F.

GALVESTON, TEXAS.—Palms are very largely used as lawn ornaments in this city, few lawns of any extent being without a number. Some of the date palms thus used are 8 to 15 feet in height, and one recently noted was 40 feet high.

ADIANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower because it is
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.

3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:

1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:

Because it lasts three times as long as Cuneatum. Customers ordering in our store should invariably ask for the kind that don't wilt. In buying see that you get the true variety, as it has many aliases. Price, strong plants, \$8 per 100. Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

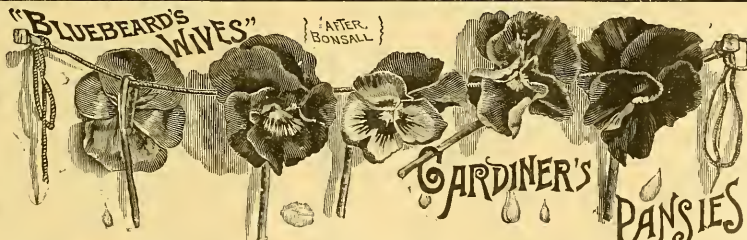
Z. DE FOREST ELY & Co., Importers and Growers of Bulbs for Florists.

PopularPrices.ReliableQuality.PromptShipments.CataloguesFree.LiberalDealings.FaithfulRepresentations.CarefulAttention.SelectedStocks.

SEND A LIST OF YOUR WANTS FOR SPECIAL PRICES ON
Lilium Harrisii, Freesia, Roman Hyacinths, Narcissus, Dutch Hyacinths, Tulips, Crocus, Etc.
WE WILL STILL ACCEPT ORDERS AT PRICES GIVEN YOU IN OUR "IMPORT OFFER" CATALOGUE.

1301 & 1303 MARKET STREET, PHILADELPHIA, PA.
WAREHOUSE: 246 N. Broad Street,

Telephone No. 1298.

REGISTERED CABLE ADDRESS:
De FOREST, PHILADELPHIA."BLUEBEARD'S
WIVES"{ INTER.
BONSALL }

GARDINER'S
Rare and Beautiful
PANSIES.

NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	1/2 oz.	1/4 oz.	1/8 oz.	1/16 oz.
Pansy, English Choicest Fancy.....	\$.50	\$1.00	\$4.75	\$5.25	\$10.00
" English and Scotch Show.....	.50	1.00	5.00		
" Cassier's Superb Giant.....	.25	1.00	1.75	3.25	6.00
" Roemer's Giant 5 spotted.....	.50	3.00	5.00		

	Trade Pkt.	1/2 oz.	1/4 oz.	1/8 oz.	1/16 oz.
Pansy, New Odor or Prize Blotched.....	\$.25	\$1.00	\$1.75	\$3.25	\$6.00
" Buzard's Giant French.....	.50	1.00	1.75		
" Giant French Stained.....	.50	1.00	1.75		
" Trimardeau Giant French.....	.25	.50	1.00	1.75	3.00

Our International Prize Strain contains all the above sorts in mixture as well as many other beautiful varieties.
PANSY, GARDINER'S "INTERNATIONAL PRIZE"..... Trade Pkt. 50c.; 1/2 oz. \$1.25; 1/4 oz. \$3.25; 1/8 oz. \$4.25; 1 oz. \$8.00.

SEED GROWERS, IMPORTERS AND DEALERS,
JOHN GARDINER & Co., 21 N. THIRTEENTH STREET, PHILADELPHIA, PA., U. S. A.

Buffalo.

Our forces at Washington will arrive in detachments, but before the convention is over we shall be fairly well represented. Mr. Long goes round by New York and joins the big party. Mr. and Mrs. Hale also go via New York. Unfortunately the Buffalo exposition opens on the 17th. The management has been liberal with premiums for plants and flowers and the horticultural department being under the care of the Buffalo Florist Club several of us will have to stop behind and get exhibits in shape. The "professor" can't leave till Thursday, being superintendent of our department, and Mr. Ed. Mepsted will be looking after his employer's interest at the show and watching that Mr. Rebstock and Mr. Pickleman don't get ahead of him. But all those I have mentioned have promised to be at the capital on Thursday or Friday. We shall have a bowling team without doubt and a special committee will be there (of non bowlers) to convey the cup or cups to Buffalo. Mr. Christenson had the misfortune to cut a tendon of the wrist on his right arm and for several weeks has lost the entire use of his hand. There are strong hopes of his getting that useful member in perfect order again, but he feels he had better stop at home for the present.

Mr. Henry Breitmeyer of Detroit and his youngest son are in town and will join the Buffalo and Toronto party going south.

White flowers have been very scarce here. White asters are now coming in, which is a great help, for carnations in this neighborhood are about gone. They have "played out" much sooner than usual this year, for what reason it is hard to tell. The writer was able to pick good Wilders and Silver Spray last fall till the 15th of September or till the benches were cleared off to prepare for the new crop. I would like to see those progressive men who grow carnations without stakes do this. One of the leading causes of losing the plants in warm weather is because tying and trimming up the plants is neglected; air and light is excluded. They flop over on each other and with the amount of water and syringing they then require rotting soon takes place and off goes the plant. Good careful tying and letting in daylight between them will pay a hundredfold at any time of the year.

A fine lot of *Lilium lancifolium* roseum and album have been grown by one or two of the florists and very useful they are. In designs they are grand and as a bunch they are beautiful. They don't have the coarse look of auratum or its overpowering odor. G. S.

THE advertisement of Z. De Forest Elv which appears in this issue was intended for our Convention Supplement, but was accidentally omitted.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.
AUG. TOEFFAERT,
GHENT, BELGIUM,
Palms, Azalea Indica,
TUBEROUS BECONIAS.
TRADE LIST ON APPLICATION.



Clean and round, heavy and sound
In every bulb a flower.

GARDINER'S BULBS.

"Clean and Round,
Heavy and Sound,
In every bulb a flower."

That old world rhyme expresses exactly the qualities which have made

GARDINER'S BULBS

popular from one end of the country to the other. Our customers sit at the first table and pay no more than those who depend on the inexperienced caterers. Before taking your vacation make sure you have all arrangements made for Fall and Winter stock in case business may feel like taking a vacation also; but at the wrong season. Look over the special Price List we sent you and send us your order. If list mislaid send for another.

JOHN GARDINER & CO.,

BULB GROWERS, IMPORTERS AND DEALERS,

PHILADELPHIA, PA.

HYACINTHS, TULIPS, VALLEY, ETC.

Owing to favorable contracts with leading growers early in the season we can make special prices on PRIME QUALITY FORCING BULBS. We carry a full assortment of florists BULBS in quantity.

SPECIAL OFFER.

We have secured a special lot of VON SION NARCISSUS, fine, well ripened Bulbs, which will pay every florist to try, \$12.00 per 1000.

Chinese Narcissus—True stock, Oct. delivery, per basket of 100, \$6.50; 3 baskets \$17.50.

Azalea indica—Leading varieties, assorted, 1st size, \$35 per 100; larger size, \$45.

If you want well shaped plants that will reach you in prime condition, send us your orders.

VALLEY PIPS—Special-early forcing grade, per 1000 \$9.50. Per box of 2,500, \$9.00 per 1000. Lots of 10,000, \$8.50 per 1000.

FLOWER SEEDS—PRIMULAS, PANSIES, CALCEOLARIAS, ETC. Select strains, the best that hard work and money can procure. Try *Barnard's Florist Mixture of Pansies*; it's made up of the rarest and finest varieties only. Per trade packet, 25c.; 1/8 oz. \$1.00; per oz. \$7.00.

W. W. BARNARD & CO.,
6 & 8 N. Clark Street, CHICAGO.

Flowers Wanted.

We wish to engage a regular supply of flowers to fill our standing orders for the coming season. We make a specialty of filling these order direct from the growers. They are regular daily, tri-weekly and semi-weekly, and will pay full value, but **must be choice stock**, ordinary common stock will not answer. Growers, **having first class stock in prospect**, please correspond with us early.

The Wisconsin Flower Exchange.

133 Mason St., MILWAUKEE, WIS.

Mention American Florist.

CARNATION CULTURE; BY L. L. LAMBORN.
Third Edition, containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHUTE, Paterson, N. J.
Mention American Florist

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card.

136 & 138 West 24th Street,

STATION E. NEW YORK.

CYCLAMENS.

Strong plants for potting on.

\$7.00 PER HUNDRED.

\$60.00 PER THOUSAND.

DAVID ALLAN, Mt. Auburn, Mass.

Always mention the AMERICAN FLORIST when writing to advertisers.

Dutch Bulbs.

Krelage's Wholesale Bulb List

for the present season (No. 460) is now ready and will be sent gratis and post free to nurserymen, seedsmen and florists only.

A GENERAL DESCRIPTIVE CATALOGUE

may be had also gratis and post free. First part (No. 455 A) containing **Gladioli** and all other Bulbs for Spring planting, was published in January. Second part (No. 455 B) devoted to **Dutch Bulbs, Etc.**, to be published as soon as possible.

Please write directly to

E. H. KRELAGE & SON,
HAARLEM, HOLLAND.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIEDEL'S P. O., Baltimore Co., Md.
Mention American Florist.

APPLE GERANIUM SEED, fresh seed, just received, per 10 seed, 25c; 100 seeds, \$1.25.
CYCLAMEN. We have an extra fine strain.
Cyclamen Persicum, finest mixed, 1/4 ounce, \$1.00; Pkt., 25c.
Emperor William, dark crimson, 50 seeds, 25c.
Giganteum Album, Mont Blanc, pure white, 50 seeds, 50c.
Deep crimson, very large, 50 seeds, 50c.
Atropurpureum, flowers large and deep, red, 50 seeds, 50c.
Sanzulneum, new blood red, 20 seeds, 50c.
Giant Flowered Varieties, extra choice mixed, 50 seeds, 50c; 1/4 ounce, \$2.00.

J. C. VAUGHAN,

12 Barclay street, 145 W. Washington St.
New York. CHICAGO.

C. G. VAN TUBERGEN, Jr.,
HAARLEM, HOLLAND.

Grower and cultivator of choice Dutch bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents.

C. C. ABEL & CO., P. O. Box 920. New York.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

H. BAYERSDORFER & CO.,
WHOLESALE

FLORISTS' SUPPLIES ONLY,
53 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

FLORISTS' • SUPPLIES

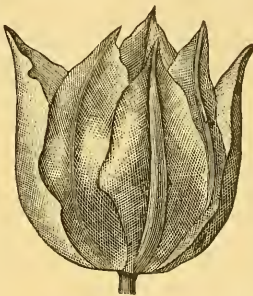
— IS OUR —
SPECIALTY.

MARSCHUETZ & CO.,

23 and 25 N. 4th Street, PHILADELPHIA, PA.
Mention American Florist.

Duc Von Thol Tulips.

SPECIAL.



Our agent has secured very low rates on these valuable early forcing Tulips by buying in large lots, and we are able to make the following **SPECIAL**. Order now.

	Per 1000	Per 100
Scarlet.....	\$4.25	\$.60
Red and Yellow.....	7.25	.85
Rose.....	17.50	2.00
White.....	17.00	1.90

We make a Specialty of all Bulbs for Florists Forcing
"IN SEASON."

NEW YORK: J. G. VAUGHAN, **CHICAGO:**
12 Barclay Street. P. O. Box 688.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. **TRADE LIST** issued quarterly, mailed free to the trade on order.

HENRY A. DREER,
Philadelphia

BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Altona, Hamburg, CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

Please mention the American Florist every time you write any of the advertisers on this page.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.
C. C. ABEL & CO., P. O. Box 920, New York.

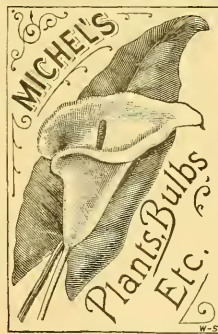
SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs, ARAUCARIAS, CYCALS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.



Write for wholesale list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

Bulbs and Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,

3 COENTIES SLIP, NEW YORK

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000.....72.50

50,000.....337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK

Cincinnati.

The Cincinnati delegation, accompanied by the St. Louis florists, left Sunday evening over the B. & O. for the convention, with colors flying.

The gentlemen from the "Mound City" were met at the depot by the Cincinnati boys and escorted to the dining rooms of Thomas J. McClear, the caterer, where a bountiful spread was laid in honor of the guests. The table was beautifully decorated by Mr. Tom Hardesty. The center was a star of yellow gladioli and hydrangeas, while on either side were cypresses, flats and rounds of the same flowers. After satisfying the inner man, Mr. Albert McCullough, on behalf of the Cincinnati florists, gave a short and cordial address of welcome to the St. Louis delegates, which was responded to by Mr. Michel in a very able and pleasing manner. There were present eighteen members from St. Louis and twenty-two Cincinnatians. St. Louis is Cincinnati's choice for the convention for '93.

Mr. Otto Walke, of the firm of Gear & Walke, has bought out Mr. Emil Schmid, 617 Central avenue. As Mr. Walke is a hustler, there is no doubt but that he will establish a large up-town trade.

We had the pleasure of entertaining Miss Mary Ostertag of St. Louis for a short time Sunday evening. She was on her way to the convention.

Mr. Frank Huntsman captured a small green snake in one of his greenhouses the other day and placed it in his show-window, where it attracted considerable attention. The neighboring florists were surprised to see such large crowds around his window, until they made a personal investigation, and then they went away wondering what they could do to counteract the attraction. E. G. GILLET.

New York.

The Florists' Club is making an effort to arouse greater interest in the horticultural department of the World's Columbian Exposition and are advocating unity of action between the Florists' Clubs and Horticultural Societies, that all the New York state exhibits may be exhibited in one section, and an endeavor will be made to get a specified amount set aside for the general appropriation for the horticultural department.

The new badges of the club are in the form of a button of oxidized silver, bearing the inscription "N. Y. Florist Club." They are exceedingly neat. At the last meeting of the club Wm. Tricker exhibited a vase of splendid myrteas.

HARDY CUT FERNS

MOSS {SPHAGNUM AND
GREEN SHEET.

A 1 IVY LEAVES.

BOUQUET GREEN AND FETTERING OF
all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Place. BOSTON, MASS.

SMILAX.

Nice young plants, 2½-inch, \$2.00 per 100;
\$18.00 per 1000.

CYCLAMEN PERSICUM GIGANTEUM, strong
blooming bulbs, \$8.00 per 100.

F. A. BALLER,

BLOOMINGTON, ILL.

Good Heavy Smilax.

Any quantity, \$15.00 per 100.

WALTER BONFIELD,

TITLE FALLS N. Y.

* PALM SEED. *

JUST IMPORTED FROM THEIR NATIVE FORESTS IN THE TROPICS.

Largest consignment of these seed ever received in this country. All fresh, and
Guaranteed to grow 90 per cent.

Note prices below, which cannot be beaten by any responsible importer in this country;
besides, we GUARANTEE GERMINATION.

	Per 100	Per 1000	Per 5000
Kenia Forsteriana.....	\$.90	\$ 8.00	\$35.00
" Belmoreana.....	.90	8.00	35.00
" Canlerburyana.....	3.00	25.00	
Sealorhia elegans.....	.45	3.50	16.00
Corypha Australis.....	.40	3.00	14.00
Areca Baueri.....	.45	3.50	16.00

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

PALMS.

KENTIA BELMOREANA and KENTIA FORSTERIANA,
in 3-inch pots, VERY FINE PLANTS,
\$5.00 per 100.

EDWIN LONSDALE, Florist,

Chestnut Hill, PHILADELPHIA, PA.

Money Order Office, Station "H".

Mention American Florist.

ORCHIDS.

The finest stock in the WORLD. Nearly five
acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

DARWIN TULIPS

are now generally recognized as the best
strain of self-colored late Tulips in the trade.
Please consult special descriptive list (No.
511) containing 300 distinct varieties. Same
will be mailed gratis and post free, including
supplement on nearly 40 certificated varieties,
on application to

E. H. KRELAG & SON,

HAARLEM, HOLLAND.

✠ Special terms to the trade. ✠

Mention American Florist.

Chrysanthemums.

2½-inch pots, 20 leading sorts for cut flowers, \$3.00
per 100. The same, 3½-inch pots, \$4.00.

CYCLAMEN PERSICUM GIGANTEUM,
assorted colors, 2½-inch pots, \$6.00 per 100. Same
from 3-inch pots, \$8.00 per 100.

Address **J. G. Burrow,**
FISHKILL, N. Y.

Special Offer to American Trade

LOUIS DE SMET,

NURSERMAN, GHENT, BELGIUM,

Offer as Specialties:

Palma, Araucaria, Araucaria excelsa (thou-
sands). Bay Trees, Tuberous Begonias,
Gloxinias. New Trade List on application.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORIST'S, NURSEYMEN'S AND SEEDS-
MEN'S AGENTS.

— For the following —

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TILBERGEN, Jr., Florist and Seedman,
Haarlem, Holland. Choice Dutch
Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen,
Ussy, France. Roses, Fruit and Forest
stocks.

V. LEMOINE & SONS, Florists, Nancy,
France. New varieties of Plants and Bulbs a
specialty, etc.

ERNST RIEMSCHEIDER, Florist and Seedman,
Altona, Germany. Berlin Lily of the
Valley a specialty.

G. A. VAN DER GOOT, Nurseryman, Elst,
Netherlands. Fruit stocks, etc.

THE TOTTENHAM NURSERIES, Limited,
Dedenswaard, Netherlands. Managing Di-
rectors: A. M. C. Jonckindt Coninck, A. M. C.
Vander Elst.

Catalogues (mention which) free on application
when received for distribution.
All orders for these houses should be plainly
written and addressed to us.

CACTI! CACTI!

AT WHOLESALE AND RETAIL.

I have over one hundred varieties named, and
many yet unnamed. Also Agaves, Aloes, Yuccas,
Dasylirions, Zamiis, Euphorbias, and Orchids, in
many varieties, collected for the trade at low rates.
Collected from Texas and Northern Mexico to Pacific
Coast and Gulf of Mexico.

Plants shipped safely to Foreign Countries.

Satisfaction Guaranteed.
Cacti from 10 cts. to \$30 each. Florists' patronage
solicited. I have been collecting over 28 years.

ANNA B. NICKELS, Florist,

Laredo, Texas.

Grevillea Robusta.

	Per doz.	Per 100
2½-in. pots, 12 in. high.....	\$1.00	\$ 8.00
3-inch pots, 15 in. high.....	1.50	12.00
3½-in. pots, 18 in. high.....	3.00	
6-inch pots, 24 to 30 in. high...	6.00	

NATHAN SMITH & SON,
ADRIAN, MICH.

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT
BLOOMING VARIETIES.

All the newest and choicest in cultivation. Cata-
logues free. Special trade rate.

WM. TRICKER, Dongan Hills, S. I., N. Y.

MAGNOLIAS.

2 years in open air.

DANVILLE NURSERY AND GREENHOUSE CO.,
Danville, Virginia.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

CHINESE PEONIES

are grown in **500** distinct varieties in
Krelage's Nurseries at Haarlem, Hol-
land. Please write for special descrip-
tive catalogue (No. 512), containing ex-
act descriptions of over 500 varieties,
cultural directions, etc., to

E. H. KRELAGE & SON,
HAARLEM, HOLLAND.

SPECIAL TERMS TO THE TRADE. ☞
Mention American Florist.

CABBAGE PLANTS.

BEST LATE FLAT DUTCH,

\$1.50 per 1000; \$6.00 per 5000; \$10.00 per
10,000.

CASH WITH ORDER. ✂

S. O. STREBY,

Lock Box 77. UPPER SANDUSKY, OHIO.

MUMS.

NOVELTIES OF '92.

MRS. E. D. ADAMS, **KOSLYN,**
GEO. W. CHILDS, **W. A. MANDA,**
fine plants from 2 1/4-in. pots, 25c. each; \$2.50 per doz.
3 1/2-in. pots, 35c. each; \$3.50 per doz.

DOUBLE SWEET ALYSSUM,
from 2 1/4-inch pots, \$2.50 per 100.

STEVIA, very stocky plants,
from 2 1/4-inch pots, \$2.00 per 100.
from 3 1/2-inch pots, \$5.00 per 100.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

CARNATIONS

Strong plants, \$8.00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc., etc.
BOUVARDIAS Pres. Cleveland, Davidsoni, Pres.
Garfield, Bridal Bouquet, \$8.00 per 100.

PRIMROSES, 2 1/4-inch pots, \$4.00 per 100.

WM. A. BOCK, North Cambridge, Mass.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell.
The very best Ornamental shrub. It will make you money and give the best
of satisfaction to your customers. Millions can be sold to planters if it is
brought properly to their attention.

**Largest stock in America. Splendid plants. Cheaper and
better than Imported. See prices below:**

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2 1/2 x 3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2 1/2 ft., nicely branched	8.00 " 70.00 "

**Packed in best manner and delivered to Express or R. R.
free of charge on receipt of proper remittance.**

ADDRESS

THE DINGEE & CONARD CO.
West Grove, Pa.

PANSIES.

AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

That is what my customers say, and they are in all parts of the United States and Canada—Maine
to California, and Montreal to the Gulf of Mexico.

If care and attention will do it, they will be just a trifle better, every season; quality is the first
consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will
make it a pleasure for you to deal with me and would respectfully solicit a trial order.

**Good stocky plants from seed beds ready August 20th and after,
at 75 cents per 100; \$5.00 per 1000.**

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

FICUS ELASTICA.

Extra strong plants, 6-inch pots, \$50.00 per 100.

WM. WARNER HARPER, ANDORRA NURSERIES,
MANAGER. **CHESTNUT HILL, PHILADELPHIA, PA**

ESTABLISHED 1835.

THE OLDEST NURSERY IN THE STATE.

"AND STILL THEY COME!"

Our orders for Pot Grown Strawberries are already several thousand ahead of last year, and still the
orders come. Have you sent yours yet? There is money in it for you. Try it. Don't forget our large
stock of Parker Earle. Terms to suit purchasers, or 12 lat. upon satisfactory reference.

ROGERS' NURSERIES,

Isaac C. Rogers. **MOORESTOWN, NEW JERSEY.**

Big Pansies.

You can't miss it with the **GIANT
MARKET STRAIN** (Zirngiebel's).
It is superb. Stocky seedlings 75c.
per 100; \$5 per 1000. Strong trans-
planted plants ready Sept. 25, \$1.25
per 100; \$10 per 1000. Send your
orders NOW.

ALEX. McBRIDE, Alplaus, N. Y.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties,
very large, of perfect form, and choice colors; care-
fully selected; receive high praise from my custom-
ers. Every florist should be sure to sow it. Trade
pkt. 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. \$1.00.

JOHN E. RUFF, Shiremanstown, Pa.

PANSY SEED.

The Jennings strain of large-flowering and fancy
Pansies. You want this strain of Pansies if you
want the best. Stock all carefully grown by myself,
and first-class in every respect. To all my old
patrons, I say, they will find a decided improve-
ment from last year.

Finest mixed, all colors, pkt. 25c., 50c. and \$1 each.
Ounce, \$6.00; 3 or more ounces, \$5.00 per ounce.
Large yellow, black eyes and pure white, in sepa-
rate pkts. 50c. and \$1.00 each, free by mail.

Pansy plants ready Sept. 1, 50c. per 100; \$5 per 1000
R. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER,
Lock Box 24. **SOUTHPORT, CONN.**
Mention American Florist.

Zirngiebel's GIANT MARKET and FANCY PANSIES

New crop seeds of those superb strains now
ready, in trade packets of 1,500 and 600
seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

NEXT!

We have planted out most of the
Begonias for tubers, but keep some
ready for shipping in 2-inch pots,
\$4.00 and \$4.50 per 100.

BRAUER & RICHTER, McConellsville, Ohio.

BEGONIAS.

per 100
Rex fine assortment. \$5.00
Rex Lucy Clouson. 6.00
Listri or Diadem. 6.00
Argentina Guttata. 4.00
Metallica, 2 1/2 in. 4.00
" 3 1/2 in. 8.00
Hydrangeas Thos. Hogg, Otaksa 2 1/2 in. 4.00
" Red Branched 2 1/2 in. 6.00
Send for list of field grown Carnations and Violets.

I. N. KRAMER & SON. MARION IOWA.

Baltimore.

The temperature rises and falls, rises frequently and falls seldom. The feelings of the dealer rise about as often as the temperature falls, so that, as a whole, the week may be said to have been one of high temperature and low sales, in spite of a fall in the former to nearly 60° Saturday morning, and in spite of the fact that high temperature means high death rate and much funeral work. The quality of the stuff brought to town is decidedly poor, and the demands, though slight, pretty nearly as good as it would be at any season, for the average buds that are offered. Asters are fair but we may expect slow sales from now until fine flowers are on sale and that will not be much before chrysanthemum time.

There was a surprisingly large attendance at the club meeting Monday night, though it was very warm. All wanted to find out who were going to Washington and how, and when. After everything had been fixed, and the time of leaving decided, the club was treated to a surprise by their advertising agent, who, having been commissioned to secure advs. for the blank pages in the premium list for the fall show, turned his guns on the club and nearly filled his spaces by a short lecture and personal canvass of the members present; the said members thus paying a man to get them to put their own advs. in their own list. The most debated question in the question box was "What is the cheapest and best covering for violet frames in winter?" Mr. Moss used straw mats; Mr. McRoberts used 1-inch boards, 12 inches by 16 feet and thought, if fitted together at all neatly, they would keep out as much cold as a dry mat, and a good deal more than a wet or frozen one. Mr. Tischinger used hay and boards to keep it on. Mr. Cook used 1/2-inch boards made into shutters lined with building paper and having string fastened inside of that by string and staples. Mr. Grebb thought if rye was cut green the mats made of it would stand much longer than when cut after ripening. Mr. McNab thought double glazing might answer. Mr. Seidewitz had known of building paper being used alone and giving satisfaction. Mr. Moss knew a place where the mats were always covered with a strip of canvas the full width and length of frames. It is a question bearing on almost every member, and the general feeling seemed to be that while mats are clumsy, costly and perishable there is no sure substitute. Other questions were decided as follows:

Is buttered glass a success? Yes. What will prevent scale? Fir-tree oil. What is a remedy for thrip? The debate on this brought out the fact that there was a diversity of opinion as to the identity of the insect, and the librarian was requested to get us some works on destructive insects. Should a premium be offered for wild flowers? Several thought yes, and Mr. McRoberts offered \$10 for best collection freshly gathered and correctly named. MACK.

WINNIPEG, MAN.—The recent flower show in Industrial Hall was a success in every sense, the exhibits being very attractively arranged. Braxton & Bower received 1st prize for a specimen pin-danuss, 2nd prize for 50 assorted plants, 1st prize for tuberous begonias, and also prizes for fuchsias, geraniums and hanging basket. The same firm secured prizes for bouquets. R. Alston received 1st prize for group of palms and ferns. There was an interesting display by amateurs and a good variety of small fruits.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's crop of the choice Sweet Pea varieties, named and mixed, that we grow. Please send for trade list.

FOR IMMEDIATE ACCEPTANCE WE OFFER

Callia Lily Bulbs, 4 to 5 inches in circumference, \$30.00 per 1000. Prices on larger sizes on application.
Freesia refracta alba, good flowering bulbs, \$3.00 per 1000.
Freesia refracta alba seed, 1.00 per ounce.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

ARTISTIC COLOR WORK.

the
Orcutt
COMPY
LITHOGRAPHERS.

48-50 WABASH AVENUE,
W. B. ORCUTT, Gen'l Mgr. CHICAGO.

FIRST-CLASS WORK.
NO FANCY PRICES.
GIVE US A TRIAL.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.,
Mention American Florist.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. OUWERKERK,
P. O. Box 1845. NEW YORK.
Mention American Florist.

GOOD, CLEAN
SPHAGNUM & MOSS,

\$1.00 PER BARREL.

Or in bulk at \$12.00 per 100 cubic feet.

WM. F. BASSETT & SON, Hammon, N. J.
Mention American Florist.

HERE WE ARE
AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,
from bottom gutter up is my specialty.

Lyman Felheim,
ERIE PA.

SCOLLAY'S

IMPROVED

PUTTY BULB,

For Glazing Sash, Etc.

— ALSO THE —

Patent Plant Sprinkler

For sale by your Seedsmen, or sent, postpaid, for \$1.00.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave.,

BROOKLYN, N. Y.

Send Stamp for Catalogue.



IMPROVED GLAZING.

Zinc joints for putting glass without laps. No leakage. No sliding of glass. Precisely airtight. Keeps out cold winds, the very best seal. No loss saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O.

JULIUS TESMER & CO.,

Manufacturers of all kinds of

Ice Boxes

ESPECIALLY FOR FLORISTS.

937 to 941 N. Western Ave., CHICAGO,

— Telephone West 670. —

BUTTED GLASS SASH BARS.

Does away with all putting and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.

Shall we book your order next?

Enclose 2c. stamp for sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgr., LOCKLAND, OHIO.

CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS SASH BARS

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 116 Ontario St., Cleveland, O.; E. H. Hunt, 78 Lake St., Chicago; W. A. Hanft & Co., 1202 Olive St., St. Louis, Mo.; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 8th and Marshall Sts., Richmond, Va.; Jas. Vick, Rochester, N. Y.; Dan B. Long, Buffalo, N. Y.; J. A. Simmers, Toronto, Ont., Agt. or Canada.



FRUIT EVAPORATOR

THE ZIMMERMAN
The Standard Machine
Different sizes and prices. Illustrated Catalogue free.
THE BLYMYER IRON WORKS CO., Cincinnati, O.

PLUMS.	GRAPES.	CHERRY.	APPLES.	PEACHES.	ORANGES.	LEMONS.	LILACS.	GLADIOLUS.	DIALLIS.	CAULIFLOWERS.	PEAS.
--------	---------	---------	---------	----------	----------	---------	---------	------------	----------	---------------	-------

FINE · LITHOGRAPHIC · WORK · IN · COLORS.

• • SEED BAGS, • •

≡ NURSERYMEN'S · PLATES, ≡

CATALOGUE COVERS,

STECHER LITHO. CO., ROCHESTER, N. Y.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.



W. C. KRICK'S
PATENT

Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents: J. C. VAUGHAN, Chicago, Ill.; H. BAYBROOKER & Co., Philadelphia, Pa.; N. STEFFEN, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMIDT, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

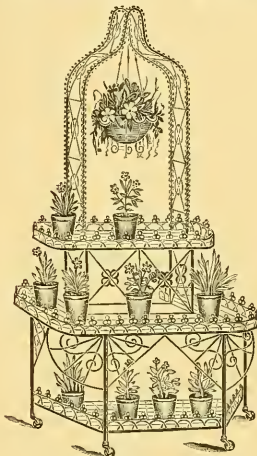
J. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

WIRE FLOWER POT STANDS



Copyrighted.

No. 4324. Flower Stand.

Send for Catalogue showing over 30 different designs with our new style CLOVER LEAF BORDER.

Address **BARBEE WIRE AND IRON WORKS,**
44 & 46 Dearborn St., CHICAGO.

HALF-TONE * * ENGRAVINGS

... ARE MADE BY ...

J. MANZ & CO., Engravers,

107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself
Publishers AMERICAN FLORIST.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES, 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of **FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small Fruits, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS.** Free Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

St. Louis.

An inch of rain and a fall of temperature this week are among the things we are to be thankful for. All outside plants are doing well.

The St. Louis Florist Club held its regular monthly meeting August 11. The following officers were elected for ensuing year: President, John Young; vice-president, Robert Tesson; secretary, E. Schray; trustees, Messrs. Connon, Koenig and Webber. Mr. Guy brought to the meeting a spike from one of his last year's seedling cannas. It was large and well formed. The flowers were yellow spotted with buff. It was considered a very good yellow canna. Mr. Saunders exhibited a couple of sprays of *Hydrangea paniculata grandiflora*. Very few of the flowers of the panicle had opened and these were small and poor. Mr. Saunders said they were from a lot of stock imported last year and which bloomed well that season, but gave no good bloom this year. Mr. Sumey, head gardener at Botanical Garden, tells me that poor bloom is the rule with this variety, while the *H. paniculata* is a good bloomer. *H. paniculata* is in full bloom here now and as a late summer flowering shrub it can not be excelled.

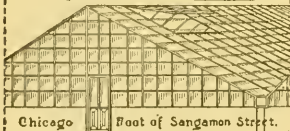
J. C. DUFFEY.

Just So.

The following choice specimen of English as she is printed in Holland we clip from a catalogue recently received:

"The best months for shipping Hyacinths are August and September, to be able to ensure receiving fine quality. Vindication for the good flower do I not take up me, as it much hang down from the weather and the good treatment and we send only such bulbs from which you can expect the best. Observations of which temper are not taken into consideration when she not happened in 30 days. Only answered we for the good-ness and health of the bulbs with the sending. The prices are in sterling English Coars."

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREEN-HOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & C.



Chicago. Foot of Sangamon Street.

STANDARD POTS.

Price list for any number.

2	inch.	per 1000.	\$3.25	5-inch.	per 100.	\$ 1.38
2 1/2	"	"	3.50	"	"	2.20
3	"	"	4.00	7 "	"	3.50
3 1/2	"	"	5.00	8 "	"	5.00
4	"	"	7.25	9 "	"	8.00
	"	"	9.00	10 "	"	10.00

Low freight rates to all points. Terms cash, f. o. b.

HILFINGER BROS., Fort Edward, N. Y.

FLOWER POTS.

Standard Flower Pots, Machine Pots, Hand-Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

FIRST-CLASS GOODS. LOWEST PRICES.

Send for price list. Give us a trial. We will sure ly satisfy you.

BOWMANVILLE POTTERY,

Bowmanville, Chicago, Ill.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa.

Randolph Ave. & Union St., Jersey City, N. J.

FLORISTS OR OTHERS
DO YOU BUY IN A CASH MARKET?
PAINT THAT WILL WEAR WELL,
• • • OR PUTTY THAT WILL STICK.

We make paints, because we know how, ship to all Railroad Stations or Boat Landings without regard to distance, and will make prices for goods laid down at your Station at figures that will pay you to patronize us, if you buy in a cash market. Try it!

Correspondence solicited, and all inquiries treated considerably and courteously.

HAMMOND'S PAINT AND SLUG SHOT WORKS,

N. E. Corner Long Dock.

FISHKILL-ON-HUDSON, N. Y.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

**RIDER HOT-AIR
OR PUMPING ENGINE**

Catalogue with full particulars sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.

Mention American Florist.



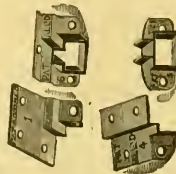
For Your
**GREEN HOUSE,
ROSE HOUSE,
NURSERY,**

**GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.**

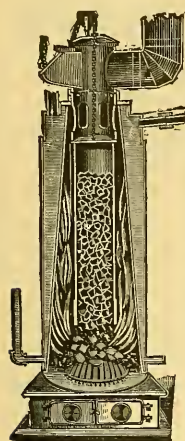
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.



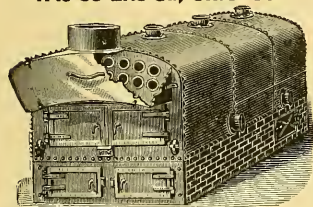
Mention American Florist.



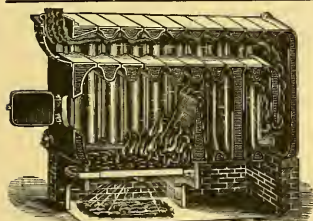
THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO.** 103 S. Clinton St.,
CHICAGO, ILL.
Send for CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF

Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

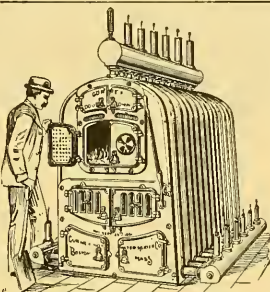
Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

THE LATEST AND BEST
for heating
GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature,

without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Agencies: { Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

SMITH & WEBSTER,

MAKERS OF

GREENHOUSE PIPE,

FOR HOT WATER AND STEAM,

193 Lake Street, CHICAGO, ILL.

Mention American Florist.

PERFECT DRAINAGE BENCH TILE.

Awarded HIGHEST PREMIUM

Wherever Exhibited.

Used by ALL leading growers and horticultural builders.

For circulars, etc., address

UPLAND GREENHOUSES.

W. P. WIGHT,

MADISON, N. J.



Save your Coal by using the

FLORIDA
HEATING APPARATUS
For Greenhouses
BEST IN THE WORLD.

PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

THE STANDARD Ventilating Machines

Received best awards

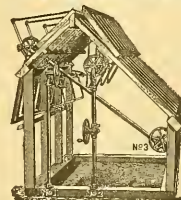
at

BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue

and prices.

E. HIPPARD,
Youngstown, O.



Mention American Florist.

Index to Advertisers.

Abel C C & Co.....	69 73	Lockland Lumber Co.....	73
Allen Day Id.....	71	Long Donl B.....	75
Andorra Nurseries.....	71	Lonsdale Edwin.....	70
Baller F A.....	70	McBride Alex.....	71
Barbee Wire & Iron.....	70	McCarthy N F & Co.....	65
Works.....	73	McFarland J H.....	65
Barnard.....	73	Nickells & Perry.....	63
Barnett Wm F & Son.....	68	Mac Bean A S.....	63
Bayardorff H C.....	49	Mann J & Co.....	65
Bay State Iron Co.....	70	Maring, Hart & Co.....	65
Berker H H & Co.....	49	Marchnetz & Co.....	69
Blymyer Iron Wks.....	73	Meyer John C.....	70
Bond Wm A.....	71	Michel Plant & Seed Co.....	63
Bonfield Walter.....	70	Miller Geo. W.....	63
Bonsall Jos E & Son.....	65	Moffatt G J.....	63
Boston Letter Co.....	73	Moninger Jno C.....	73
Bowmanville Pottery.....	74	Moore Frank L.....	63
Brackenridge & Co.....	70	Mullen Geo.....	63
Brasner & Richter.....	71	National Hot Water	
Brown & Canfield.....	63	Heater Co.....	76
Burns & Raynor.....	65	Nickels Anna B.....	70
Burrow J G.....	74	Oreuti Co The.....	72
Carmen R W.....	73	Overkerk P.....	72
Carmody J D.....	73	Peck & Sutherland.....	63
Chittly H E.....	68	Peirce & Coleman Co.....	74
Danville Nursery.....	70	Tennock Samuel S.....	65
DeLameter Iron Wks.....	74	Phoenix Nursery Co.....	73
De Smet L.....	70	Pierce Butler & Pierce.....	75
Detroit Heating and		Pierson F H Co.....	70
Lighting Co.....	76	Pletcher & Manda.....	70
Dietsch A & Co.....	74	Randall A L.....	65
Dillon J L.....	63	Reck John.....	63
Dinwiddie & Conard.....	71	Reed & Keller.....	63
Dreer H A.....	69	Rieschneider Bros.....	69
Eames H W & Co.....	72	Roberts D H.....	75
Edwards Theo.....	69	Rochrs Theo.....	63
Ellwanger & Barry.....	63	Rogers Nurseries.....	63
Er Z De Forest & Co.....	67	Rolker A & Sons.....	68
Feilhelm Lyman.....	75	Rupp John F.....	71
Feld S B.....	64 71	Sander & Co.....	70
Gardner & Co.....	67 68	Schmitz F W O & Co.....	69
Gasser J M.....	72	Schulz Jacob.....	63
Gonzalez & Co.....	69	Scollay John A.....	69
Harney Heater Co.....	73	Schre P & Sons.....	69
Hall Association.....	73	Sheridan W F.....	69
Hammond Benj.....	74	Sherwood Hall Nur.....	69
Hart James.....	65	Siebrecht & Wadley.....	71
Hartford & Nichols.....	70	Situations, Wards.....	63
Herr, Albert.....	71	Smith C A Floral Co.....	63
Hewes A H & Co.....	74	Smith Nathan & Son.....	70
Hillinger Bros.....	74	Smith & Webster.....	73
Hill E G & Co.....	68	Stecher Litho Co.....	73
Hippard E.....	72	Storrs & Harrison Co.....	63
Hitchings & Co.....	76	Storrs S O.....	71
Hosker H M Co.....	75	Sunderbruch H L.....	65
Horan Edw C.....	65	Teemer Julius & Co.....	72
Hulsebosch Bros.....	69	Toddard Aug.....	69
Hunt E H.....	65	Tricker Wm.....	70
Hunt M A.....	63	Van Tibergen Co.....	69
Hunter & Purdy.....	65	Vaughan J C.....	69
Irvine John C.....	69	Weathered Thos W.....	66
Jennings F B.....	71	Welch Bros.....	65
Joselyn.....	65	Whilldin Pot Co.....	74
Kennicott Bros.....	65	Wicht W P.....	75
Kramer I N & Son.....	71	Wicks & Mfg Co.....	75
Kroeger E H & Son.....	69 70 71	Wisconsin Flower Ex.....	66
Krick W C.....	73	Wolf L Mfg Co.....	75
Kroschel Bros.....	65	Wolfe Bros.....	65
Kuehn Chas A.....	65	Young Bros.....	65
LaRoche & Stahl.....	65	Zirngiebel D.....	71

If you have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Washington in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it.

Do you want a list of the leading cemetery superintendents? You can find such a list in our new trade directory reference book.

OUR NEW TRADE DIRECTORY FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

THE GREAT FUEL SAVER
THE CELEBRATED

BOLTON

ITS FIRE HOLDING
QUALITIES UNEQUALLED.

ESPECIALLY ADAPTING IT TO

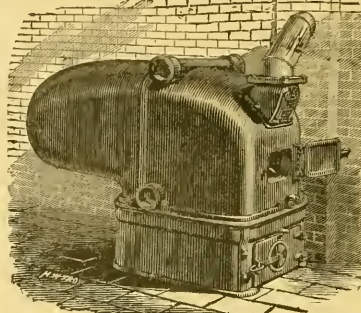
GREENHOUSE HEATING.

SOLE MFRS.
Lieb and Wight Sts., DETROIT, MICH.
NEW YORK 126 Liberty St.
BOSTON, 41 Pearl St.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.



Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Thos. W. Weathered's Sons,

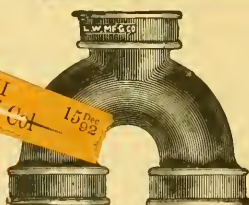
... GREENHOUSE ...

HEATING AND VENTILATING APPARATUS.

HORTICULTURAL BUILDERS.

244 Canal Street, NEW YORK.

Greenhouse Pipe and Fittings



Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

The SPENCE HEATER

HOT WATER

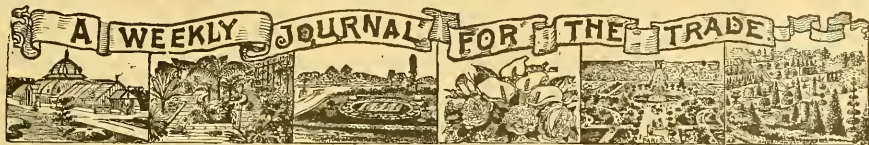
FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Port Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, AUGUST 25, 1892.

No. 221

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

The Washington convention	77
The eastern special	77
The entertainments	78
S. A. F. comedians	78
A presentation	78
The society in session (illus)	79
Convention echoes	79
The American Rose Society	79
The American Chrysanthemum Society	79
The American Carnation Society	79
The Florists' Protective Association	79
The trade exhibit	80
The bowling contest	80
A corner of the trade exhibit (illus)	81
Extracts from review of new plants	81
Roses—Fungus and other rose troubles	82
Breakfast on the Pilgrim (illus)	83
The propagation of roses	84
Ferns at midsummer	85
Some Philadelphia palms	86
Baltimore	86
The carnation, its history and management	88
Obituary—F. F. McFadden	90
Springfield, O.	90
Philadelphia	92
Toronto	94
St. Louis	95
Nothing to ask of Congress	96
Buffalo	98

TOMATO SEED growers report damage from tomato worm.

SEVERAL pea growers report early wrinkled sorts do not average over half a crop.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.



THE WASHINGTON CONVENTION.

When the returns are all in we believe it will be found that for members in attendance, interest and value of the sessions, unlimited hospitality and perfection of detail in all the arrangements this meeting stands pre-eminently ahead of any former gatherings. When such smoothness in the carrying out of all the details occurs, for instance, at Boston, nobody thinks of being surprised, for long experience in such matters has given the managers of such occasions there the necessary training. But in Washington the conditions are different, and therefore Messrs. Smith, Hale, Reynolds, Oliver, Clark, Durfee, Freeman and Ley, with their associates on the committees, have earned and are entitled to the highest praise for the phenomenal perfection of their work. More especially will every recipient of their favors be glad for them and extend the heartiest congratulations on their success, as they recall the selfish and unpatriotic course taken by certain of their townsmen in not only refusing to bear a hand with them in their labors, but in doing all they could to place obstacles in their way and embarrass them. All hail the National Gardeners Club of Washington! The florists of the country take off their hats to you and wish you long life and prosperity.

The Eastern Special.

The great excursion to Washington from the northeastern part of the country was much like the boy's snowball which starts with a handful, but by steady rolling increases to mountain size. An individual here and there from Maine, New Hampshire and Vermont speeding along with faces Bostonward, that was the beginning. A magnificent two section train of 20 loaded cars, beautifully decorated, that was its proportions when the great excursion rolled into the Capital City.

From Boston the route was via the Fall River Line to New York. A surprise was in store here for the delegates. When they reached Fall River and boarded the steamer Pilgrim the party was ushered to the dining room and it was ascertained that the generous New York committee had been at work and a complimentary supper was in waiting. After full justice had been done to this part of the program the balance of the evening was spent as it can be spent nowhere excepting on a Fall River boat on a moonlit summer night.

On arrival at New York the boat was boarded by the representatives of the New York Florists' Club, including President Dean, J. N. May, Alex. Burns, John Young and others, who after much mys-

terious running to and fro made announcement that the whole party was invited to breakfast with the N. Y. Florist Club. The spacious dining hall was beautifully decorated, each table bearing a basket of flowers such as can be found at this season of the year nowhere excepting in New York, and each bearing on a card the name of the donor, the list representing the most notable of New York's growers and retailers.

In the meantime another committee was hard at work decorating the cars of the special train at Jersey City, which when the big baskets from the tables had been added presented an appearance fully worthy of the festive occasion. As to the



incidents of the trip a volume might be written. Those who know how well florists can forget their cares and enjoy such a holiday can easily imagine how fun reigned supreme.

One hundred and eighty-seven was the number of the New York addition to the party, and various smaller accessions on the way to Phila. brought up the full number on board when Phila. was reached to over 300.

At Trenton the train was boarded by the Philadelphia committee, consisting of D. D. L. Farson, John Walker and W. P. Craig, who took formal possession of the party and announced that they were now the guests of the Phila. Florists' Club and were invited to partake of a collation on arrival at that city.

Accordingly, on reaching Philadelphia the guests formed in procession, carriages being provided for the ladies, and proceeded to Horticultural Hall, which was superbly decorated with palms, crotons, etc. A few words of welcome from Robert Craig opened the proceedings and two hours of social intercourse followed, after which the train, now consisting of two sections, started on its way to Washington. The Philadelphia boys were not to

be beaten by their N. Y. brethren and lavish decorations of engines and cars were provided. The baggage car was transformed into a concert garden where skirt dances by Charlie Weathered, Major Rogers and others, trumpet solos by D. D. L. Farson and E. Koffman, together with other diversions of a like nature furnished unlimited fun for the spectators and made the time fly rapidly.



DECORATING THE CARS

Promptly on time the train arrived in Washington, without a single mishap, the reception committee of the National Gardeners' Club assumed its duties promptly and the great excursion was a thing of the past.

The Entertainments.

Never in the history of S. A. F. conventions has the work of entertaining been carried on in a more liberal scale than at Washington. It was one constant round of jollity from beginning to end, excepting only the time devoted to the regular sessions. The time allotted to the serious work of the society was sacredly respected and thus the question of the rival claims of fun and business received a practical solution, and it is to be hoped that the customary fault-finding on this score will be missing this season. To recount all the hospitalities received by the visitors from their generous hosts would take many columns.

The reception at Mr. McLean's garden was a rousing success, being attended by over 1,500 people, and here, as elsewhere, the efficient gentlemen on the entertainment committee left nothing undone for the comfort and pleasure of the visitors.

After the evening session the musicale also gave great satisfaction, the music being furnished by the Baltimore Maudslowi Club and the Washington Zither Circle, while refreshments were furnished to the audience. On Thursday afternoon the ride to Strauss & Co.'s greenhouses was enjoyed by many, the invitation being given by the Herenden Co. and C. Strauss & Co.

On Thursday afternoon, and in fact at all times during the week, Mr. J. R. Free-

man and Strauss & Co. kept open house at their places of business, which were constantly filled with a merry crowd. On Thursday evening one of the richest entertainments on record took place at Strauss & Co.'s, where the efforts of a number of shining lights in the society, as amateur minstrels, brought down the house repeatedly and kept the company till well towards daybreak.

The trip to Mt. Vernon will be a red letter day in the memory of all who participated. The delightful sail down the historic Potomac, the opportunity to visit the sacred spot where sleeps the father of his country, the kind attention shown by the committee in charge will be long remembered. And it is safe to say that the grimaces of the colored gentleman with the cavernous mouth who helped furnish the musical entertainment will never be forgotten by any who were fortunate enough to get a look at this characteristic southern product. The many places of interest which the visitors were anxious to visit gave the entertainment committee a full share of work to do, and it was well done, with only one end in view, viz., to give all the pleasure possible to the guests, in which ambition they succeeded well, for everybody was taken care of.

The Columbia Athletic Club deserves great credit for its kind hospitality extended not only to the bowling fraternity but to the whole society in offering all the conveniences and privileges of their rooms to the members during their entire stay in the city.

S. A. F. Comedians.

A new departure in the way of entertainments at the annual conventions took place in the parlors of Strauss & Co.'s store on F street Thursday-Friday (note the hyphen). The proceedings began after the regular session closed at Armory Hall Thursday 10 p. m. and continued into the wee sma' hours Friday morning.

The affair was conducted by the S. A. F. Comedians, a new organization which gives great promise of furnishing high-plane amusement at the coming conventions.

The courtly Mr. Durfee, mine host of the evening, furnished forth the audience room in all splendor and served a perpetual feast of delicacies both solid and liquid with that liberality and grace for which he is noted, so that none were hungry or thirsty and the inspirational moods of the artists and audience were continually attuned to the highest pitch. Reason feasted, soul flowed and hilarity reigned supreme, but decorously.

Such a galaxy of entertainers has rarely been heard, even in the ranks of professional amusement producers. There were President-Elect Smith, in a dignified and characteristic specialty backed up by Judge Hoitt, who was "retained" for the occasion; Sec'y Stewart, in his inimitable dissertation "Bean Porridge"; John Thorpe in his great dual character of "Dogberry" and the "Dandy Copper"; the rotund and genial Burt Eddy, as "Sir John Falstaff"; "Great Scott," as "Bluff" (Who could portray this better?); Elijah A. Wood, in his role of "Chippie"; Edwin Lonsdale as the grand "Duke of York"; Dan Farson, full of "Great Expectations"; J. R. Freeman, in his original character of "Ten Strike." Such an olio was never before given in the whole realm of amusements and will be long remembered.

Without being invidious in description where everything was so uniformly excel-

lent we gladly notice the great elocutionary treat of the evening furnished by Burt Eddy in his famous recitation of "The Old Man Dreams," his masterly reading of "Roll Call After the Battle," in addition to his personation of bluff "Sir John Falstaff." Burt is a raconteur as well as being one of the best amateur recitationists in the country. His stories would make the sphynxes grin.

"Little Woodie," in his mellifluous and dainty songs, won repeated encores and rounded out the general joy. Indeed, to those who know these two gentlemen, their disparity in size exhibited on one stage is mirth-provoking of itself and alone worth high-priced admission.

Considering the general excellence of the whole entertainment, we seriously recommend a permanent organization to rehearse a complete exhibition to enliven future meetings of the S. A. F. and on such a scale as to include the whole convention for an audience.

The talent evinced on this occasion was too bright to hide under a bushel and we hope the moving spirits will elaborate a programme for the St. Louis meeting which will be educational and recreative and show more generally the versatility we have within our ranks.



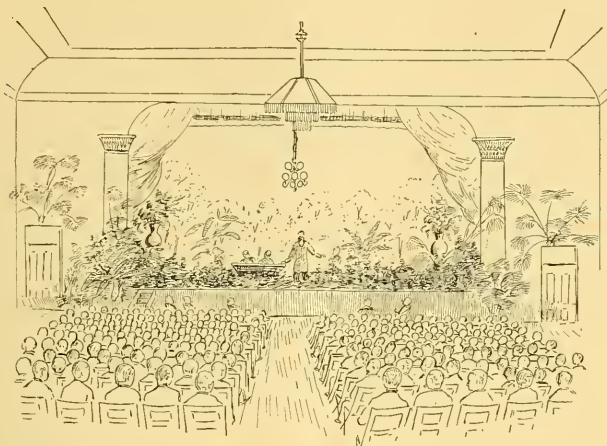
WELL, WELL! YOU HERE!

A Presentation.

Could a more appropriate place than the porch of the house so long occupied by Washington at Mt. Vernon have been selected for the honoring of a president of the Society of American Florists by the presentation of a token expressive of appreciation of his labors for the welfare of the society. At an opportune moment on Friday afternoon the members present at Mt. Vernon were called together in front of the house, and President Dean was presented with a handsome silver tea-service by the members of the S. A. F., Mr. E. A. Wood making the presentation in the following words:

"Ladies and Gentlemen: You have been called upon to-day to do honor to one who has stood at the helm of our ship for the last twelve months and landed us safely here in this city whose name is one that every boy was taught to lip upon his mother's knee.

"Once every year we meet, and it is our duty and pleasure to select one of our number to preside at our meetings



THE SOCIETY IN SESSION.

and act as our president. We try to be careful to select a man whose integrity and whose honesty is undoubted and unquestioned—a man who is willing and ready to give his valuable time and who has the best interests of our association at heart. Last year, at Toronto, we selected such a man, and, Mr. President, I have been selected—I know not why—to present to you this token of the esteem of the members and ladies of the S. A. F., to show you their appreciation of the manner in which you have conducted their deliberations, the courtesy you have extended to the speakers; of the manner in which the gavel was brought down when, perhaps, the younger members in the back of the hall thought their conversation was a little more important than that of the man who held the floor. [Laughter.]

"In presenting this to you, let me say that it is the wish of one and all of us that you and your good wife may live to enjoy many years of happiness and prosperity, and when you look upon this small token; think of the many good friends you met and will leave when you return to your home." [Applause.]

Mr. Dean, in reply, said: "Mr. Chairman, Ladies and Gentlemen: It is on occasions like this that I wish I had the eloquence of the gentleman who has so ably presented this beautiful present.

"On this historic ground, surrounded by everything connected with the name of Washington, a name dear to the heart of every patriotic American, I feel it a great honor to receive this token of your respect and esteem. I will not attempt to make a speech—you all know I am not a public speaker; but I thank you heartily for your beautiful present; and if I have done anything at all to merit it I am certain I am not aware of it. I thank you again for the present, and rest assured the Society of American Florists shall always have my best wishes." [Loud Applause.]

Convention Echoes.

Not so hot after all, was it?

St. Louis went in to win, and she did win.

Our "Uncle John" received a hearty welcome.

The Philadelphia contingent made its share of noise as usual.

What a nice little presentation speech "Little Woodie" can make.

One of the happiest men in the world was our president-elect, W. R. Smith.

John Keck is an enthusiastic shark hunter. We hope he will catch them all.

The group photograph taken at the Botanic Garden is a remarkably good one.

Brother Hale as Superintendent of Exhibition was the right man in the right place.

What a crowd of handsomely ladies there were! We never had so many at a convention before.

"Some people often think they are thinking when they are doing nothing of the kind."—W. R. Smith.

The "Brave Old Duke of York" never received a better rendering than at Strauss's on Thursday evening.

The questions about coal and heating apparatus got a few of the boys started, but were far from warming them up as in the days of yore.

What to do with the "mule variety of kickers" is, according to Mr. Ewing, one of the most important problems before the florists' clubs.

The essay by Mr. Rob't Farquhar of Boston on "Floriculture for Children" was one of the best written papers ever presented to the society.

The plan adopted this year of having two or more replies to each of the inquiries from the question box added much to the interest of this feature.

W. S. Clark seems never so happy and enthusiastic as when dispensing refreshments to a crowd and the hungrier and the thirstier they are the better he likes it.

Mr. T. P. Sheridan extended a cordial invitation to the members of the S. A. F. to visit Buena Vista on the Potomac, with a free ride and admission to the grounds thrown in.

According to some of the orators in her behalf, St. Louis is a notable summer resort. One of her representatives asserts that on a certain year frost was recorded for every month in the year.

The kind invitation of Mr. H. E. Smith of the Department of Agriculture to visit and inspect the forecast room and other points of interest at the Weather Bureau

was gladly accepted by many of the visitors.

The souvenir of Washington prepared and presented to the visitors by the National Gardeners' Club is a beautiful token and contains an immense amount of well written and reliable information. It was a happy idea.

The receipt of a telegram from Boston announcing the arrival of a 14-pound boy at the home of Mr. P. Welch set the Boston contingent in high glee as visions of a future christening rose before their eyes. And it explained also his absence from the meeting.

The committee on final resolutions extended the thanks of the society to Commissioner Ross, Assistant Secretary Willits, Hon. John R. McLean, the National Gardeners' Club and its efficient committees, the Columbia Athletic Club, the exhibitors, the essayists and the officers of the S. A. F.

The American Rose Society.

In accordance with announcements previously made a meeting for the organization of a national rose society was held during the Washington convention of the S. A. F.

Mr. M. A. Hunt was elected temporary chairman and Mr. H. B. Beatty temporary secretary. A call was made for 50 or more who would be willing to contribute \$100 each for the privilege of becoming corporate members. Twenty-one responded from those present, which was certainly very gratifying. Messrs. E. G. Hill, J. N. May and Robert Craig were appointed a committee on constitution and by-laws. The plan reported by them at a later meeting provided that only corporate members should be eligible to election as officers, except the vice-presidency, which latter position might be held by an associate member. The by-laws confined all voting to the corporate members, but this was amended, giving this right to the associate members as well, though the amendment was unsatisfactory to the minority of those voting. Organization was not perfected on that account. A circular letter will at once be issued by the temporary secretary and the work of perfecting the organization carried on.

The American Chrysanthemum Society.

At the annual meeting of this society held in Washington officers for the ensuing year were elected as follows: Wm. K. Harris, Philadelphia, president; E. G. Hill, Richmond, Ind., vice-president; Edwin Lonsdale, Chestnut Hill, Philadelphia, secretary; M. A. Hunt, Terre Haute, Ind., treasurer. The following classification of varieties of chrysanthemums was adopted: Incurved, Japanese incurved, Japanese reflexed, anemone, pompon, single.

The American Carnation Society.

At the adjourned meeting of this society held in Washington the question of changing the time of annual meeting was acted upon and it was voted to make no change. Pittsburg was selected as the place for the next meeting, to be held the third Tuesday in February, 1893.

The Florists' Protective Association.

This association held an important meeting at Washington and inaugurated some very useful new departments. The work of the association during the past

year has been of great value to the membership and in extending its scope its usefulness to the trade will be greatly increased. The officers remain the same as before. Every one selling to the trade should belong to this association. The annual membership fee is only \$2 and the information given is far more reliable than that to be had from the expensive commercial agencies. H. B. Beatty, Oil City, Pa., is secretary, to whom all correspondence should be addressed.

The Trade Exhibit.

The trade exhibit was the most complete and comprehensive ever made in connection with a convention of the society. It was certainly a very valuable feature of the meeting and it was very ably conducted by Superintendent Hale, under the rules and regulations adopted by the executive committee last January.

Following is a list of those making displays. Awards are mentioned where given:

H. Bayersdorfer & Co., Philadelphia. A full line of baskets and other florists' supplies. Honorable mention.

Ernst Kauffman, Philadelphia. Baskets and supplies. Highly commended.

Mrs. A. B. Nickels, Laredo Tex. Cacti. Certificate of merit.

Wm. Tricker, Dongan Hills, N. Y. Aquatics. Highly commended.

D. Wilhelm, New York. Baskets and metal designs.

Hulschbosch Bros., New York. Bulbs, in great variety.

John Gardiner & Co., Philadelphia. Bulbs. An excellent display of bulbs of fine quality, for which certificate of merit was awarded. Mushroom spawn. New spray pump "Little Climax," to which honorable mention was given.

J. C. Vaughan, Chicago. Bulbs and immortelles, the former in variety and of excellent quality. Also garden tools and florists' supplies, for which honorable mention was given.

J. W. Elliott, Pittsburg. Tuberous begonias. Certificate of merit.

Oasis Nursery Co., Westbury Station, N. Y. Seedling tuberous begonias. Certificate of merit.

C. E. Brinton, Wilmington, Del. Seedling white carnation Excelsior. Honorable mention.

F. L. Moore, Chatham, N. J. Blooms of the Bridesmaid rose.

Essex Heights Floral Co., Belleville, N. J. Glazier plants.

Michel Plant and Seed Co., St. Louis. Greenhouse and hardy plants. Honorable mention.

Chas. D. Ball, Holmesburg, Phila. Palms and decorative plants. Highly commended.

F. R. Pierson, Tarrytown, N. Y. New cannae Alphonse Bonvier, Paul Marquant and Capitaine P. de Sizzoni. Certificate of merit for Paul Marquant.

Rob't Craig, Philadelphia. Ornamental foliage plants. Honorable mention.

W. K. Harris, Philadelphia. Ficus elastica. Fine specimens of trade sizes.

John Burton, Chestnut Hill, Phila. Palms. In fine condition.

Pitcher & Manda, Short Hills, N. J. Palms and decorative plants in variety. A large display for which certificate of merit was awarded. Bulbs in variety—highly commended. Orchids—certificate of merit. Anthuriums—Hon. mention.

H. A. Drecr, Philadelphia. Palms, ferns and decorative plants for which honorable mention was given. The collection of ferns included a large number of varieties. Bulbs—a fine display. Blooms of

double petunias—certificate of merit. Iron plant stand of the style first used by W. K. Harris. Safety thermostat. Display of wooden and metal labels—Highly commended.

John H. Ley, Anacostia, D. C. Ornamental foliage plants—certificate of merit. Plant of *Coccoloba grandifolia*—certificate of merit.

C. S. Ford, Philadelphia. Immortelle letters, wheat sheaves, etc.

D. H. Roberts, New York. Natural gas made glass of fine quality. Certificate of merit.

The Reed Glass Co., New York. Glass. Honorable mention.

D. B. Long, Buffalo, N. Y. Floral photographs. Certificate of merit.

J. A. Penman, New York. Horticultural books. Honorable mention.

W. H. Ernest, Washington. Flower pots.

Edwards & Docker, Philadelphia. Florists' cut flower boxes. Certificate of merit.

N. Steffens, New York. Floral wire designs.

Edw. S. Schmid, Washington. Aquaria and aquaria supplies. Hon. mention.

Cincinnati Dessicating Co., Cincinnati, O. Bone flour.

Stott Garden Implement Co., New York. Patent syringe and sprayer for insecticides. Certificate of merit.

Marschuetz & Co., Philadelphia. A full line of baskets and other florists' supplies. Certificate of merit.

Boston Florist Letter Co., Boston. Immortelle letters and inscriptions and cases for keeping same in.

C. H. Joosten, New York. Magazine bellows for distributing insecticide powders, and samples of Fostite, the new insecticide. Cert. of merit for bellows.

L. B. Bragne, Hinsdale, Mass. Fern leaves and evergreen trees. Honorable mention.

Z. De Forest Ely & Co., Philadelphia. Bulbs. A large display. Hon. mention.

Whilldin Pottery Co., Philadelphia. Standard flower pots and jardinières. A large display of excellent ware. Highly commended.

E. Hippard, Youngstown, O. Ventilating apparatus.

Quaker City Machine Works, Richmond, Ind. Ventilating apparatus.

Hitchings & Co., New York. The Hitchings boilers. Ventilating apparatus. Section of iron frame greenhouse—certificate of merit.

D. C. Schofield, New Brighton, Pa. Standard pots.

Benj. F. Sill, Long Island City, N. Y. Window garden sprayer. Honorable mention.

Herenden Mfg. Co., Geneva, N. Y. The Furman boiler.

W. P. Wight, Madison, N. J. Bench tiles. Iron frame for bench—certificate of merit. Cut flower shipping case—certificate of merit.

J. D. Carmody, Evansville, Ind. Ventilating apparatus. Honorable mention. W. C. Krick, Brooklyn, N. Y. Immortelle inscriptions and monograms. A fine display.

W. H. Elliott, Brighton, Mass. Asparagus plumosus nanns. Very long strings.

Wm. H. Diven, Laurel, Md. Ventilating apparatus, iron rafters, guttering, etc. A. Le Mout, New York. Photographs of floral designs. Honorable mention.

John McGowan, Orange, N. J. Liquid manure distributor. Cert. of merit.

—
You can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

The Bowling Contest.

It was a great contest, but no heavy scores were made. The alleys were uniformly good, but the pins were not very large, which left considerable space between them and they would not all go down unless taken in just the right spot. A ball placed too near the center would be sure to mow a swath through the pins and leave some standing at each corner, and as a result strikes and spares were not as common as usual.

Mr. C. L. Doran, of the New York team, carried off both 1st individual prizes with a single score of 204 in the second game and a combined individual score of 337 for the two games. In view of the fact that last year the highest individual score was 193, Mr. Doran, and the whole bowling contingent as well, are to be congratulated on his high score. Certainly nothing less than 200 should carry off the first individual prize in such a contest. We are progressing.

The second individual prize was won by Mr. S. Lipman, of the Boston team, with a score of 181, and the third individual prize went to Mr. S. Coleman, also of the Boston team, on a score of 170.

Philadelphia won both the Galt and Spaulding cups, the second Washington prize going to New York and the third to Boston.

Following is the score in detail:

PHILADELPHIA.		
	1st Game.	2d Game.
Geo. Anderson.....	165	122
R. Kift.....	145	133
C. Longinette.....	144	131
L. Brown.....	169	136
Geo. Craig.....	128	166
J. Kennedy.....	130	114
	881	802
Total.....	1683	
NEW YORK.		
T. Roehrs.....	141	136
E. Leuly.....	142	112
C. L. Doran.....	133	204
J. Roehrs.....	117	120
C. H. Allen.....	112	135
A. S. Burns.....	106	127
	751	834
Total.....	1585	
BOSTON.		
W. H. Elliott.....	161	122
S. Coleman.....	170	156
S. Lipman.....	181	127
T. A. Cox.....	104	124
W. Martin.....	83	106
M. H. Norton.....	123	149
	769	784
Total.....	1553	
WASHINGTON.		
G. W. Lewis.....	155	157
A. Gude.....	151	136
G. Cook.....	123	116
C. Bringer.....	118	119
W. H. King.....	102	93
J. R. Freeman.....	120	123
	769	744
Total.....	1513	
CHICAGO.		
P. J. Hauswirth.....	131	116
G. L. Grant.....	126	128
P. Reinberg.....	118	150
A. Zender.....	131	136
A. Ringier.....	112	120
J. C. Vaughan.....	111	108
	729	758
Total.....	1487	



A CORNER OF THE TRADE EXHIBIT.

SUMMIT, N. J.		
Jos. Manda.....	125	139
H. A. Stollery.....	133	128
F. McDonald.....	139	97
H. Jueneman.....	130	107
John Clark.....	106	109
W. A. Manda.....	117	100
	750	680
Total.....		1430

BUFFALO.		
W. Scott.....	145	110
D. B. Long.....	100	109
W. Muston.....	95	101
M. Bloy.....	119	111
G. Asmus.....	97	139
P. Scott.....	151	120
	707	690
Total.....		1397

BALTIMORE.		
I. H. Moss.....	116	98
Alex. Scott.....	109	140
Edw. Kress.....	103	108
John Wiede.....	108	109
Harry Lehr.....	99	102
Robt. Halliday.....	122	81
	657	638
Total.....		1285

PITTSBURG.		
John Bader.....	101	112
A. W. Smith.....	90	116
E. W. Ludwig.....	92	113
J. C. Ludwig.....	101	105
G. Oesterle.....	91	89
E. C. Reineman.....	102	97
	577	632
Total.....		1209

The arrangements for the contest as perfected by Mr. J. R. Freeman were so absolutely satisfactory to every one that not even a single criticism could be thought of. The comfort of all was provided for in a right royal way and in an openhanded genial manner that made every one happy and at home. In addition to the freedom of the elegant club house a side room was stocked with refreshments that were dispensed with a generous hand to the on-looking members of the S. A. F. as well to members of the competing teams. At the close of the contest rousing cheers were given with a will for the Columbia Athletic Club, Mr. Freeman and the National Gardeners' Club for their generous hospitality. And

as the boys had their lungs in play they delivered similar volleys in honor of President-elect Smith, Uncle John Thorpe and the genial, hard working C. F. Hale, whose management of the trade exhibit gave such great satisfaction. It was a jolly crowd.

Extracts From Review of New Plants.

BY WM. FALCONER.

[Presented at the Washington Convention of the Society of American Florists.]

PLANT NOVELTIES.—By R. LINDSAY, CURATOR, ROYAL BOTANIC GARDENS, EDINBURGH, SCOTLAND.

I scarcely ever remember a year when so few plant novelties have been introduced into this country, excepting orchids, which have been rather numerous. I refer more particularly to hardy perennials. I may mention the names of a few plants, which though not new, are not sufficiently known. They are all hardy perennials and real good things.

Aciphylla squarrosa, New Zealand spear grass. An excellent yucca-like, sharp leaved plant, most useful for rockeries.

Aster alpinus speciosus.—Flowers much larger and showier than the normal type. *Celmisia spectabilis*.—A New Zealand composite of great merit, having large star-like, pure white flowers.

Clintonia Andreweana.—A North American liliaceous plant having red flowers succeeded by turquoise berries; foliage also good.

Pentstemon Menziesii, from the Rocky Mountains; the best shrubby Pentstemon that I know.

Veronica Fairfieldii.—New Zealand, very fine, like *V. Hulseana*.

Veronica tinifolia.—New Zealand; one of the most distinct of the genus.

Heuchera sanguinea.

Spiraea Kamschatica.

Polygonum spirostachyum.

Primula Poissonii.—A new species from Yunnan, China, produces whorls of flowers somewhat like *P. Japonica*, but larger and dark purple in color, a fine distinct plant but not very hardy.

Primula imperialis.—From mountains in Java; also produces whorled spikes of flowers of a rich golden yellow color; an excellent plant, but requires to be grown in a frame or greenhouse.

Tufted Pansy Olivette.—A new race of bedding plants raised by Dr. Stuart, of Chirnside Berwicksire. *Viola cornuta*

is the origin of this race, a large number of which are now on trial. The best I have seen are Olivette and Sylvia. The former pure white, small flowers; the latter creamy white and large flowered. The character distinguishing them from all others is their strong, delicious perfume. The fine odor prevails throughout the whole of the race; the colors are as varied as in ordinary pansies.

Erica Stuarti.—A new heath of great merit botanically, and of no small value horticulturally. Found by Dr. Stuart in a wild state in Connemara, Ireland, during an excursion with the Scottish Alpine Botanical Club. It is unlike any other of our native heaths, the mouth of the corolla is open and reflexed slightly; the color is rose pink and the plant is very floriferous, probably a sport or hybrid from *Erica Mackayana*, which abounds in the district where it was found.

Olearia insignis.—A native of New Zealand, the finest of the genus, but, unfortunately, tender in this country. It has large, handsome, woolly foliage, shrubby habit and produces stiff, erect flowers, pure white about two inches wide.

Campanula persicifolia grandiflora.—An excellent bellflower; flowers pure white, very large, twice the size of the ordinary *persicifolia*.

Cytisus Andreanus.—A fine dark flowered variety of the common Broom, very handsome and unique.

NEW AND RARE PLANTS.—By THOS. S. WARE, HALE FARM NURSERIES, TOTTENHAM, LONDON, ENGLAND.

Below is a list of new and rare plants not yet in commerce, which are not enumerated in my catalogues, and of which I have a very limited stock. Of the White Papaver Orientale I have only a single plant:

Papaver Orientale alba, Armeria cephalotes alba, Chrysanthemum Leucanthemum semi-duplex, Sparaxis William 1st, Chionodoxa Allenii, Lilium Lowii, Carnation Pride of Great Britain, Carnation Horace Dan, Genista Andreana.

STOVE AND GREENHOUSE PLANTS.—By V. LEMOINE & SONS, NANCY, FRANCE.

Pavonia intermedia rosea.—*P. intermedia* is a hybrid between *P. Makoyana* and *P. Vioti*; the sort rosea has the same habit, but rosy pink flowers. (Lemoine.)

Begonia Haagiana.—Introduced through the gardens of Kew; it does not seem to be a true species, but shows a relation with *B. Scharifiana* and *B. metallica*. Beautiful foliage, large white flowers in enormous cymes, very showy.

Begonia Schmidtii hybrida rosea.—Obtained by us in crossing *B. semperflorens* vernon, or rubra, with *B. Schmidtii*. It also was at the same time obtained and sold in the neighborhood of Paris as *B. Versaillensis*. Flowers pink, foliage bronze green, very useful for bedding. Some other hybrids obtained by us by crossing *B. semperflorens gigantea* with other sorts are very good plants for winter decoration and for bedding. *B. la France* and *B. diadem* are the best of this section.

A new set of Gesneraceous plants sent out by Danzanvilliers, of Rennes, France, the result of crosses between *Isoloma hirsuta* and *Tydeas*, contain some grand varieties, very free and vigorous, with large clusters of blooms.

Among the stove and greenhouse ferns the best is *Pteris Victoriae*, sent out by Wm. Bull, London, the pinnales are green variegated with silver. A lot of other good plants were raised in the cretica section. *Pteris cretica serrulata densa*,

Pteris serrulata plumosa. *P. tremula Smithiana* is also a very good plant.

Asparagus retrofractus arborescens, introduced from the Hungarian garden, is different from the other sorts and begins to be much in favor, as the branches are more slender and the leaves longer than in the previous sorts.

Calceolaria Triomphe de Verrieres, raised by Vilmorin Andrieux from crosses of *C. rugosa*, is a good bedder.

In callas we have the form with very large spathes, *C. grandiflorum*, introduced, as we believe, from Madeira. We have also a dwarf form named Little Gem. It is now much spoken of.

Calla Elliottiana, with yellow spathes, the result of a cross between *C. aethiopica* and *C. albo maculata*. The entire stock of it was sold at a high price in England.

Caryopteris maslancanthus is not a new plant, but begins to re-appear in the gardens. It is a verbenaceous plant, with a profusion of blue flowers produced in succession till the frost kills it down.

We have a new set of hybrid crassulas, raised by M. Foucard, of Orleans, in crossing *C. jasminea* and *C. coccinea*. The six varieties obtained are good market plants, covered with large corymbs of bloom, ranging from white to pink and carmine.

We shall not speak of *Nicotiana colossea* as it is sufficiently known now.

Among the cannas with large flowers *Mme. Crozy* is still the best, with *Alphonse Bouvier* (large crimson scarlet flowers) and *Eldorades*, a sort of our raising, the best yellow.

The fuchsias are still progressing slowly; in the sorts of the last year we shall mention among the best: *Buffon*, *Ulysse*, *Trelat*, *Constance*, *Mrs. Ch. Daniels*, *Alphonse Karr*, *Celine Montaland*, etc. In pelargoniums, show and *Zonale*, there is so large a number of novelties that they deserve a special study.

Primula Poissoni is nearly hardy. Our plants resisted the winter in open ground, but were killed by late frosts. It is a beautiful sort, introduced from South China by the Abbe Delavay and grown in the Paris Museum. It is much in the way of *P. japonica*, but with larger blooms and putting forth a succession of new scapes throughout the summer. Among other perpetual flowering sorts is *P. Forbesi*, introduced by Vilmorin Andrieux, it has slender stems and little pink flowers borne in quantity.

Among hardy shrubs it is not necessary to speak of *Deutzia parviflora*, well known in America; *Genista scoparia Andrianca* is also much used; the hybrid *Moss Orange*, *Philadelphus Lemoinei* and *Lemoinei erectus* are much praised by amateurs. The best novelties in double lilacs are the double white *Mme. Lemoinei* and the double pink *Belle de Nancy*.

A beautiful shrubby spirea was raised by us from a cross between *Spiraea crispiifolia* (bullata) and *Spiraea bimaculata*; as it retained much of the habit of the latter it was called *Spiraea Bimaculata ruberrima*, the flowers are larger than those of both parents and of a dark carmine.

Among the hardy herbaceous plants *Clematis Davidiana* is sufficiently known. *Dodecatheon Lemoinei* and *D. Lemoinei robustum* are the first terms of a series of hybrids between *D. integrifolium* (splendens) and *D. Jaffranum*, where are to be found vigorous plants carrying many flowers of the brightest carmine.

Hosta japonica compacta multiflora and its ally, *Spiraea astilboides floribunda*, much superior to their respective types, are now extensively grown for forcing and for market sale. *H. japonica* and

Spiraea astilboides will soon be discarded in their favor.

In chrysanthemums we have a new series of early flowering sorts, raised by Delaux of Toulouse, so that we shall have chrysanthemum blooms from June till January.

In hardy bulbs *Crocasmia aurea imperialis* is a grand plant, with flowers and flower stalks twice as large as those of *Crocasmia aurea*. It is a handsome sight.

Our new sorts of *Gladiolus Lemoinei* and *Gladiolus Nancianus* are always improving; they would deserve a special study; you will understand that their ecology can not be made by us.

In Tuberous Begonias the new sweet scented *Baumanni*, good for bedding without shade, as well as *B. fulgens*, from the same country (Bolivia), were introduced by us and we shall not speak of them.

ROSES.—BY E. G. HILL, RICHMOND, IND.

Medea (Tea).—Foliage dark and thick, very much like that of *Perle des Jardins*. The color of the flower is soft creamy yellow. This variety brings some buds of immense size and very double, texture firm and heavy, and models of what a tea rose should be; on the other hand, quite a number of short, blunt buds are produced. Must have further trial.

Kaiserin Augusta Victoria (H. T.).—One of the most promising of the new roses; color pure ivory white, quite full and of beautiful form; stems long and finely foliaged. A limited test last winter leads to the belief that it will prove a fine variety for forcing.

Salamander (H. P.).—Very promising; color crimson scarlet, double and of fine size; outer petals nicely reflexed.

Spenser (H. P.).—Soft shining pink in color, quite full and of handsome rounded form, outer petals changing to pale pink and beautifully reflexed.

Mme. Angélique Veyssel (H. T.).—“Striped La France”; quite identical with *La France* save in the very pretty striping of pale and bright pink; the bloom is of fine size.

Mme. Caroline Testout (H. T.).—A grand addition to the *La France* family, very similar in habit, foliage and form of flower, but of immense size; its special recommendation is its brilliant pink color which never shows a faded tinge, yet is far from the shade of *Duchess of Albany*. A grand new rose.

Danmark (H. T.).—The flower is of immense size, extremely double and of exquisite rounded form, quite after the model of some of the finest of the *H. Ps.* The color is soft bright pink.



Fungus and Other Rose Troubles.

BY BYRON D. HALSTED.

[Read before the Society of American Florists at the Washington Convention.]

The writer considers it no empty honor to be invited by the Society of American Florists to prepare a paper for this meeting upon the topic assigned. Since the publication from your secretary the subject has been under more special consid-

eration than previously, and the rose indoors and out, both in sickness and in health, has been a theme of frequent thought.

Take it indoors and out, wild and cultivated, the rose in all its species and varieties has a full share of the fungous diseases. No less than 165 kinds are recorded in the books. Many of these are not considered injurious in particular, and will be passed without further notice. It is the purpose of this paper to treat of those species that are most troublesome to the practical rose-growers, for they have been making serious complaints for some months, and special attention has been paid to these subjects.

THE BLACK SPOT. (*Aclononema Rosa*, Fr.)

The black spot is a very wide-spread and conspicuous disease of the rose, first described in 1826, now known in many countries and often much dreaded. The foliage, when attacked, soon develops the characteristic black spots, and the leaves become elsewhere pale and shortly fall to the ground. As a result rose-houses badly infested with the black spot show but few leaves and fewer blooms. The microscopic structure of this fungus has been fully considered with plates in the first annual report made by Professor Scribner as Chief of the Section of Vegetable Pathology of the United States' Department of Agriculture for the year 1887. It only needs to be said here that experiments with this fungus have been carried on sufficiently by the New Jersey station to warrant the assertion that it can be controlled by the proper use of fungicides.

This trouble may be held in check by the carbonate of copper compound, using three ounces of the carbonate of copper, one quart of ammonia and 50 gallons of water. The spraying should be done once a week, using a hose and a nozzle that gives a fine spray. The point should be to wet every part of the plant and yet not drench it. If many leaves have fallen from the plant they should be gathered up and burned.

As with many other diseases some varieties are more liable to the black spot than others. When possible, that is, when all other things remain the same, it is, of course, wise to grow those least susceptible to the disease. It may be said in passing that within the past week the black spot has been observed by the writer upon a species of wild rose (*Rosa humilis*) where it was causing the leaves to become spotted and yellow. It is not surprising, for the wild plant was growing but a short distance from a neglected estate where garden roses were badly spotted.

POWDERY MILDEW OF THE ROSE. (*Sphaerotheca pannosa*.)

One of the oldest troubles of the rose-grower is the mildew. This develops very suddenly upon the foliage in the green-house or outside of it, giving the leaves a powdery appearance and causing them to become more or less misshapen. In a mild form the foliage may be only mealy, but frequently the surface becomes uneven and the whole leaf twisted. If left unheeded the enemy will ruin the plants attacked, and knowing this, remedy has been found and long applied in the shape of sulphur in one form or another. Prof. Maynard, of the Massachusetts Experiment Station, finds that a small kerosene stove is the most convenient for this purpose, and the sulphur, by means of it, is boiled in a kettle for two or three hours twice a week, the house being closed during the operation.



BREAKFAST ON THE PILGRIM.

The only precaution is to use no more heat than is sufficient to boil the sulphur, for should it catch fire it might damage the plants. In the AMERICAN FLORIST for July 7, of the present year, Mr. John N. May writes that the best way to get rid of the mildew is to close the house about 8 o'clock in the morning, run the temperature up to 75°, then with a bellows fill the house full of sulphur, let the house remain closed until it reaches 85° to 90°, then let air in gradually. A constant circulation of air is likewise recommended for roses at all times. Potassium sulphide, one ounce to two gallons of water, sprayed upon the plants, has proved an effective remedy. Gardeners from long experience have come to the belief that rose mildew is induced by a weak condition of the plant resulting from partial starvation, irregular or excessive watering and undue exposure to drafts of cold air. The best success in rose-growing, as in all other things, attends those who give constant intelligent care to the many details.

DOWNY MILDEW OF ROSE. (*Peronospora Sparsa* Berk.)

Some rose-growers are troubled with a second form of mildew which differs in many ways from the one just mentioned. It is less easy to detect, and being more deeply seated may do greater damage before detected than the powdery mildew. It is likewise less easy to eradicate because it thrives within the substance while the sphænthica feeds superficially. The *Peronospora Sparsa* is a close relative of many of the most serious mildews, as those of the grape, onion, lettuce, spinach, and the rot of the sweet potato. The treatment for this is the same as for the anthracnose, to be mentioned later.

ROSE RUST. (*Phragmidium Macronatum*.)

The genuine rust of the rose, similar to the rust of wheat, oats and other grains, is not common in our section of the country upon indoor roses. It is not unlikely that it may become a pest here as it now is in California and other states in the Union. Those who are familiar with the rust of the blackberry need no further words of general description of this fungus. The writer has seen the pest so violent in its attacks upon roses in Santa Barbara, Cal., as to ruin them, causing the canes even to become blistered, knotted and otherwise distorted, the whole being covered with a mass of

orange colored spores. There is very little to be said in the way of treatment save that of cutting and burning all affected plants.

A ROSE ANTHRACNOSE. (*Glæosporium Roseæ*, Hals.)

Many sick rose plants that have been sent to me for inspection have exhibited only one species of fungous disease, namely a *glæosporium*. When a rose is badly infested with this fungus the leaves are small and pale and the canes die at the tips; sometimes the stems may be dead for a foot or more from the extremity; not infrequently one branch will be dead clear to its base, and sometimes two or more are thus destroyed. The dead twigs show pimples quite evenly distributed over the surface, and from some a minute, often curved, horn of a reddish color protrudes. When such stems are placed in a moist chamber the whole decaying surface becomes closely covered with the numerous, almost brick-red, masses of spores, and the disease spreads rapidly through the adjoining parts of the twigs that seemed healthy when placed in the moist chamber. The rapidity with which the fungus would spread was a subject of surprise. In four days from the time spores were introduced into sterilized sections of rose-twigs in the test-tubes the whole of the culture would be covered with the spore masses. This anthracnose appears to be new in that it has not before been studied microscopically.

EEL-WORMS.

One of the leading reasons for the many complaints made by rose-growers during the past year is a microscopic worm that works principally in and at the roots. These worms are in outline like that of an ordinary eel, and under the microscope are seen in almost constant motion. They cause an enlargement of certain portions of the roots, and by means of these galls or knots are easily detected with the naked eye when a plant is removed from the soil and carefully washed of the adhering earth. The writer furnished an article on this subject to the special spring number of the AMERICAN FLORIST, accompanied by a photo-engraving of a badly infested root-system of a root-plant. Some of the following notes are taken from that paper. The term nematodes is also given to the eel-worm, but whatever the name they go by there is no doubt about their injuriousness. The point that most interests

rose-growers is how to get rid of the pest. In order to do this it will be of much assistance to know where the worms come from, how they propagate and get into the roots of the infested plant. These eel-worms are much more abundant than generally supposed, and it is only when they get numerous that their mischief become apparent.

The nematodes are, as a rule, much more abundant in warm climates than elsewhere, and the unusual abundance of these pests in northern gardens for the past two years is likely due to the lack of the freezing of the soil. The greenhouse furnishes the proper conditions for the propagation of the eel-worms, provided they are there to begin with. This naturally raises the question of how they first get into the bed. This may be in one or more of several ways. They may be already in the roots of the plant, but in small numbers, when the plants are placed in the house. To guard against this the roots should be examined as closely as possible for the galls when the beds are set. All galled roses should be excluded. The nematodes may come in with the earth. As before stated, the worms infest a large number of kinds of plants, and it is an easy matter for them to come in with the soil. Soil that has not been used for growing plants in the garden is not necessarily free, but may, if taken from a pasture or meadow, contain many nematodes. Then, again, they may be taken with the manure that is used.

Just what may prove to be the best precautions remains for the principal rose-growers to determine. Cold in excess will probably destroy the worms, and likewise a high temperature is inimical to them. Both of these conditions may be impracticable to apply to the soil, the one being impossible in some cases and the other too expensive. Rose-growers might make the experiment of heating the soil of a small portion of the bed before setting the plants and satisfy himself if such a treatment will pay.

If manure is the chief vehicle of the worms it may be possible to grow roses in soil containing less of it. It may be that roses can be grown with a furrowed soil to which all the necessary elements of plantfood have been added in the form of commercial fertilizers. It may be, however, that the pampered rose will not perform her part unless fed in the ordinary way to which its ancestry has been accustomed.

The fact is that the worms are doing much damage. When they are once in a plant there is no known way of driving them out. New conditions may induce the formation of new roots and a sickened plant may revive, but such ways are not to be expected under such circumstances.

It is possible that some substance may be put on the soil that, while not injuring the roses, may kill the worm not already in the plants. Lime has been thus used, and with favorable results. Sprinkle the lime upon the surface of the bed, or better mix it with the soil, and each watering will tend to bring it in contact with the tender bodies of the worms. It is not unlikely that some of the fertilizer compounds may be formed that at the same time they furnish food for the plants will deal a death-blow to the nematodes. Kainit may thus prove an efficient remedy, and it only remains for some enterprising rosarian to take the matter in hand and demonstrate the truth or falsehood lurking in the sug-

gestion. It is easy to obtain and apply, and the amount to use must be determined by trial.

All that has been said regarding the habits of the rose eel-worm applies equally well to those of the violet, coleus, lantana, bouvardia, geranium and a long list of other plants that are frequent or occasional victims to the same trouble. The treatment will vary with the nature of the plant whether annual or permanent, woody or succulent, large or small.

The Propagation of Roses.

BY PAUL M. PIERSON, TARRYTOWN, N. Y.

[Read before the Washington meeting of the Society of American Florists.]

MR. CHAIRMAN, LADIES AND GENTLEMEN—Many proverbs are the embodiment of truth, some of falsehood. As the "twig is bent the tree's inclined" belongs to the former category. This afternoon I am to tell you what little I know of correctly bending twigs as applied to rose-growing, for I am to speak of "The Propagation of the Rose." As in man and the inferior animals, it is essential that the youthful environment should be such as to encourage healthful growth and correct tendencies, so, in the propagation of a rose, it is of the utmost importance that constant attention and care be given to every detail that will aid the perfect development of our rose-plant that is to be. Roses can be successfully propagated at any time of the year, though experience has taught us that better plants can be produced from wood, taken during the late winter and early spring, than at other seasons. At that time the plants are in their most vigorous condition, having responded to the longer days and increased sunlight by producing wood that is firm, strong and healthy; fortunately this is also the season at which we are forced to do most of our propagating for the coming season's stock, in order to have plants in proper condition at planting time, so that in this case necessity and advantage go hand in hand. Earlier, the wood is apt to be soft and sappy, later the plants have become weakened through excessive heat and continued cutting.

In selecting wood from which cuttings are to be made, careful attention should be paid to the selection of only healthy and vigorous shoots. Wood that is mildewed to any extent rarely does well, as the diseased foliage is in a debilitated condition and unfitted to endure the ordeal of the unnatural conditions to which it is to be subjected, for the month of its transformation from a fresh cutting into a healthy rooted one ready for its first pot. During this period, when devoid of root, the cutting is dependent on the healthy condition and vitality of the wood from which it is made; hence the necessity of care in its selection. Foliage infested with red spider should be avoided, as from the position in which the cuttings are placed in the bench with the cuttings close to the sand it is impossible to syringe the underside of the leaf where this pest is wont to lurk, and as a result it multiplies so rapidly that by the time the cutting should be rooted we find it eaten up, or so sapped of vitality as to be worthless. A cutting should never be made of wood whose foliage is black-spotted, for every leaf so infected, whether the spots be large, small, many or few, is certain to sicken, die, and finally drop on the sand of the bench, there (if not removed at once) to breed the dreaded cutting bench fungus, and thus not only does your infected cutting

die itself, but spreads disease among its healthy neighbors. If the cutting be made of wood too hard or over-ripe, the tissues will have become contracted and the power to absorb water from the sand much reduced, resulting in the foliage quickly turning yellow and dropping, or if the cutting roots at all, it will be observed that the callous forms very slowly and the roots that finally develop do so after a much longer period than would be necessary with a proper cutting, and will be slender and lacking in strength, resulting necessarily in a plant wiry and without the vigor so essential to the best results. Again, if wood be taken too soft, the young and tender foliage will evaporate moisture faster than it can be supplied, and the result will be a quickly wilted and ruined cutting. Wood that is half ripe, experience has proven best suited to root quickly and strongly, and hence produce a vigorous plant—a condition that is hard to describe to a novice, but which is easily known at a glance by the experienced. A good idea may be conveyed by saying that the condition of wood found on shoots whose buds are beginning to show color is the ideal, and in the best possible stage of maturity; but in my opinion it is not necessary that the shoots from which cuttings are made should terminate in a bud. It will be observed that I have insisted on the selection of perfectly healthy wood, and wood in the proper condition respecting maturity; but I am inclined to differ from the authorities regarding the importance attached to the selection of *blooming* wood for propagation. My objections to this practice are two-fold: first, it is very expensive. The time when most of us do our propagating is during the first three months of the year, January, February and March; we may do some earlier, some later, but much the greater amount of it is done in these months when the price of the flower is highest. Let us look at the subject from the standpoint of first cost of the cuttings for a moment, and we shall realize what a great and, I believe, needless expense is here incurred. Flowering canes of the class of *Mermet*, *Bride*, *Cusin*, *La France*, etc., when cut back so as to leave at least two eyes on the plant, contain as a rule no more than six to eight joints; adopting the old rule of making the cutting at an eye requires at least two eyes to each cutting, very often an eye or two will be wasted in making, so that each shoot taken will on an average make no more than three cuttings. The price of cut roses will, of course, vary with the locality, but adopting the ruling price in New York for last season we find that the average price for this class of roses of good quality for January and February was about 10 cents, for March somewhat less, but would average for the three months about nine cents; thus, if only blooming wood be taken, and each cutting made at an eye, every cutting as it enters the propagating bed represents a cost of three cents, but there is always an unavoidable loss occurring during the process of rooting and growth through damping off in the cutting bed, and while becoming established after potting, and a certain proportion that are weak and unfit for planting when that time arrives; so that to produce a thousand plants that will be in proper condition for planting it will be necessary to take at least one-third more cuttings than the actual number of plants needed. This will raise the cost of the wood alone from which the cuttings are made to grow a thousand good plants to the

snug little sum of \$40. To plant our rose-houses at Scarborough requires something over 20,000 plants, to produce which, in accordance with the two-eyed blooming wood theory, would represent a sacrifice of \$800 worth of buds, an expense which, if necessary, would certainly be a severe tax. If it be proven that this great expense insures stronger or better plants, and therefore a product correspondingly greater or of higher quality than could be produced by other plants, then we must admit its wisdom; but on the other hand, if it be possible to demonstrate that this enormous drain on the product of our toil not only does not produce better results but that it is a matter of grave doubt if the advantage does not lie with the product of other wood, then there is but one conclusion, that many of us are yearly, needlessly and foolishly sacrificing thousands of dollars. I contend that cuttings made from blind wood not only produce plants fully as good in every way, but, if there be any difference, better plants than usually grown from blooming wood. I do not mean by blind wood all the light, twiggy, wiry stuff that comes, but on almost every variety a certain amount of wood comes blind, and yet short-jointed and firm (there are some exceptions to this rule, *Wootton* being one variety that rarely produces a blind shoot), but it is true of most varieties, and where such wood can be obtained and taken when in proper condition, I believe it produces the very best possible plants. This wood should be torn from the plants and the knife used as little as possible, the cutting rooting much better when it is torn than when it is cut. My reason for holding this class of cutting to be the best that can possibly be taken are several; first, such cuttings root much more quickly, three weeks being sufficient; second, the roots are both stronger and more numerous than can be obtained from other wood. I have frequently, on digging such cuttings from the propagating bed, counted from ten to fifteen strong, healthy rootlets started from the heel, and as abundant healthy roots are such important factors in the growth of a strong plant, the value of this point will be readily admitted. Third, this wood is short-jointed and full of dormant eyes at the base, giving promise of abundant bottom shoots as the plants develop. To satisfy myself on this point every plant that was planted on our place last summer had its pedigree with it, that is to say, a record of the class of wood from which it was made, whether blind, single-eyed, or selected two-eyed cuttings made from blooming wood, the date the cutting was made, potted, shifted and planted; at the expense of a great deal of care we had these records follow every batch of cuttings from the time they were made until they were finally planted, when each lot was carefully labeled. This applied to every variety and to every plant on the place, so that we knew the complete history of every plant in the establishment. In planting we were very careful to allow no advantage to any class of plants, to avoid which we planted in bands across the benches; first, a certain number of rows of plants grown from single-eyed cuttings, then a number of rows grown from selected wood, double-eyed cuttings, and then those grown from blind cuttings; and repeating these changes in the class of plants until we had a series of such bands planted across each house. It is needless to say we watched the results of this experiment

with great interest; and I wish here to confess that I fully expected to prove the great superiority of blooming wood as material from which cuttings should be made: but the plants grew, and there were no startling differences developed, unless it be startling to say that in a few instances the selected wood showed signs of weakness, but, as a rule with most varieties, there was absolutely no difference, either in the rapidity of growth, strength of wood, quality or quantity of flowers, general health, or in any other respect so far as I could see, and a number of gentlemen high in the fraternity, whose attention was called to the experiment, confessed to the same fact. From what I have said above, I do not wish to convey the idea that a double-eyed cutting made at the sacrifice of a bud will not produce a good plant; but I firmly believe that a blind cutting will produce fully as good a plant at a saving in the aggregate of many a hard earned dollar, will root quicker and with far less percentage of loss than the other.

In taking the cutting, care should be used to prevent the foliage from wilting; our practice is to line a basket or box to contain them with wet burlap, and to frequently sprinkle the cuttings until they are safe in the sand of the bench. In making, the knife used should be keen and the cutting severed by a quick, sharp stroke. The wood should not be held against the thumb, but free, to avoid even the slight bruise that is unavoidable if pressure be brought against the knife. All very soft foliage should be cut away and the old foliage trimmed back; this will prevent too rapid evaporation and also enables us to place more cuttings in the bench without overcrowding. Our custom is to stick the cuttings about an inch apart in rows, and the rows about two inches apart; of course this is subject to variation, as the cuttings may be heavy or light. The bench appears much icater if the foliage all presents the upper side of the leaves toward the walk. As soon as stuck, every few lines should be soaked, so that the bed will be thoroughly settled and all crevices run together. Watering a propagating bed is largely a matter of judgment; after the first drenching the bed will probably require little water for a day or two, for if properly done at first they will be wet enough; but the foliage should be sprinkled daily, and if the atmosphere is hot, dry or windy, should be kept constantly moist. During the first week in the bench they should be kept rather wet, constant care being employed to prevent wilting and a damp atmosphere maintained, though not a close one. After the first week less water should be applied, though the condition of the sand should never be allowed to approach dryness. We use an iron-frame bench with slate bottom, on which we place about two inches of ordinary sharp bank-sand, well firmed down and perfectly smooth; and believe it pays us to remove all sand after once using, and replace with fresh for each successive batch of cuttings. A regular bottom heat, day and night, of not over 55 degrees, and a top of 50 to 55 degrees, with a free circulation of air, will supply the right conditions of temperature. Shading is of great importance, as too much sun will bring ruin to a freshly stuck cutting, though a little night and morning is, I believe, beneficial, and, as the cutting becomes harder, more sunlight can be allowed. It must also be borne in mind that a draught of air is fully as injurious as sunlight; on windy days the beds must be protected, or dam-

age will result. I do not believe in shading the glass, as often done, for the reason that such shade cannot be removed at will, and of necessity must remain both on cloudy days and at night, when all the light possible is desirable. Paper or other material spread directly on the cutting is both untidy and a great deal of labor, but worse than either it prevents the free circulation of air over the bed, maintaining a close, warm atmosphere about the foliage that supplies the best possible condition for the spread of fungus. The most perfect arrangement for shading, so far as I have seen, consists of light frames made of furring strips, six feet long and the width of the bench. On these frames is tacked the lightest grade of muslin, tightly drawn and fastened around the edges with lath strips; this material allows sufficient light to penetrate, but shades from direct sunlight. At intervals of about a foot, lath are tacked across the underside to prevent the muslin from sagging; this makes a very light, durable and portable shade that can be used anywhere, as it fits both propagating bed, greenhouse benches and hotbed sashes. We have used them constantly for a year, and to all appearances they are as good as new. They cost but a trifle, and with us have become a necessity.

It may prove of interest to some here present to listen to a few words regarding summer propagation. As the days grow hotter in the late spring and it is no longer necessary to maintain fire for the greenhouse and undesirable to keep a special fire for the propagating bed, the conditions in the greenhouse become unfavorable for successful propagation, for we now have a cool bottom temperature and a hot top, the reverse of what is needed. At this season and all through the summer the very best results can be had by rooting the cuttings in hot-beds. The wood for this purpose should be grown under glass and made the same as for indoor propagation; the hot-bed may be made very cheaply by building upon top of the ground, and common hemlock boards can be used for sides. Beds thus made will retain their heat for a long time at this season. Make the bed the same as usual and cover with from two to three inches of clean sand. When the heat of the bed has subsided to from 70 to 75 degrees the cuttings may be stuck; keep them thoroughly wet and covered with sash night and day, allowing plenty of air during the day and enough at night to prevent sweating. Keep shaded from direct sunlight, but not too dark; if careful, there should be very little more loss than would occur indoors. This method will prove of great advantage to firms having a large trade in plants for bedding purposes. Stocks can be worked up during the summer when business is dull and work not so pressing, and carried over in cold storage to be sold the following spring. Stock thus grown will prove profitable alike to grower and purchaser, for it will both sell well and grow well.

Before closing, allow me a word in regard to potting. When the cuttings have formed roots from $\frac{1}{4}$ to $\frac{1}{2}$ inch long, which will be in from three to four weeks if the wood and the conditions have been proper, they will be ready for potting. I do not believe in potting when the roots are shorter than this for the reason that many other roots are just about to start and they are not sufficiently strong to take quick hold of the earth and thus insure rapid growth. On the other hand, if allowed to remain in the bench a day

or two too long, the roots become long and wiry, making it much more difficult to pot them, and they lose something of their ability for quick work, which is essential. It is just here at the potting stage that many an otherwise perfect batch of cuttings is lost or made worthless, the novice thinking that now they are so nicely rooted all danger is past, when the fact is, I believe that fully as many cuttings are lost after potting as when in the bench, and it is almost always through carelessness in regard to some little detail during the first few days. The cuttings should be carefully dug (not pulled) from the sand, and care taken to avoid breaking the roots, which, if healthy, are very brittle, the least touch snapping them. Great damage is often done by digging up a large number of cuttings at once and allowing the roots to become dry before they can be potted. Only enough cuttings should be dug at a time to last the potter not over 10 or 15 minutes at the longest, and these should be in a box lined with wet burlap, or some similar material, and every care taken to prevent wilting of either foliage or roots. The soil used for potting should be the best that can be obtained, the same that is used for planting, and for this first potting should be sifted. If very heavy, add a little sand, and see that the soil is neither excessively wet nor dry; in the former case it will pack like a brick, and in the latter not enough, and will absorb the moisture from the roots, in both cases retarding rapid potting very much. Do not make the too frequent mistake of potting too firmly. The old idea that a rose requires a soil packed as hard as possible is all wrong, two quick pressures with the thumbs is all that is necessary, and a good, ordinary potter, if the cuttings are dug for him and the plants set, should pot from 300 to 400 an hour. As soon as potted they should be set, thoroughly watered and, if the sun be shining, shaded. After this first thorough watering keep moist, but not wet, until rooted through. Frequent moistening of the foliage will be a great benefit. Do not shade the plants too long after potting; for a day or two they should be shaded from direct sunlight, after which it should be allowed to shine on them morning and evening, gradually increasing the amount until after a week none will be needed, and the roots will be showing through, growth commenced, and the propagation of the rose completed.

Ferns at Midsummer.

At this season of the year there are various operations to be remembered in the fern department, among which there is usually some potting to be done, either of seedlings that need their first pot, or of some of an earlier crop that are now ready for shifting on.

In the potting of seedlings some care should be observed, in order to preserve the roots in good condition as far as possible, and fine soil is preferable also at this time, on account of its being more convenient to use in the small pots, otherwise the average trade ferns are not very exacting in the matter of soil, and light loam answers very well for such purpose.

For the first few days after potting the seedlings should be protected from the air to a certain extent and should not be allowed to become dry, thus ensuring their rapid establishment under the new conditions, and a little care given at this time is well repaid by the very small loss

among seedlings to which such attention has been given.

After the young plants become established they may be placed in well-shaded frames outdoors if space is limited in the houses, and any of the strong-growing sorts, as the various pteris and nephrodiums and others of like character will grow providing proper attention is paid to watering.

It is also well to remember that there is no time like the present for the planting out on benches of those adiantums or other species from which fronds are to be cut during the ensuing winter, for it is essential that the fronds be well-matured before cutting, else they will not last.

Good, strong adiantums from 3-inch pots are a satisfactory size for planting out for the above purpose, and they may be planted in a bench containing about five or six inches of light loam, the latter being enriched with some thoroughly rotted manure.

Some shading is necessary at this season over the adiantums planted as above, but as the sun becomes less powerful later in the season this should be gradually dispensed with in order to secure firm foliage for cutting.

As noted before, there are other species well-adapted for cutting—in addition to the popular maiden-hair, and a little variety of such foliage often proves very useful in the retail trade, and also very effective.

Among the sorts to be recommended for this use are *Pteris serrulata*, *P. cretica albo lineata*, *P. cretica*, and *Adiantum Wiegandii*, all of which last well when cut, and are also rapid growers.

Some preparation will also be needed from time to time where specimens are grown for exhibition purposes, some of these requiring to be potted on, if not already in large enough pots, and if in the latter condition some liquid manure will be beneficial as the plants become root-bound, though it is always well to use a comparatively weak solution of manure for this purpose, as it can thus be applied oftener without fear of injury.

Some basket-grown ferns can be used to advantage for conservatory decoration, or for a show-window display, and it is not too late to prepare some for this purpose, as with generous treatment they soon become presentable.

Among the species specially adapted for such use are *Adiantum dolabriforme* and *A. ciliatum*, *Nephrolepis davallioides furcans* and *N. pectinata*, and *Platycrema alicorne*, all of which are readily grown in this manner and require no special nursing to secure a good result.

W. H. TAFLIN.

Some Philadelphia Palms.

This city is no doubt the palm and fern centre of the country, thousands and thousands of these plants being shipped constantly to the various cities, some from the seed pan or small pots to be grown on and others in medium sizes and specimens ready for sale. H. A. Preece's establishment at Riverton is the great palm nursery of the country; there are at present at least 200,000 seedlings in sight, 75,000 being *Areca lutescens*. A batch of 40,000 *areca* seeds had been planted, and not coming up in the expected time, another lot was hastily imported, when it was seen that the first importation was all right. The second lot was put in immediately, as Mr. Eisle, the foreman, about whose good judgment too much cannot be said, says that nothing suffers more by laying over than

palm seed; he says it should be planted as soon as received. Usually it comes up very well, but of late they have had considerable trouble, which he attributes to an extra demand for seed which may be hard to supply and as a result modern methods and old seed are introduced and the result is far from satisfactory.

"This batch of *Pandanus utilis* came up very poorly; we used to get from 100 to 120 plants from a 6-inch pot full of seed, now we only get about 10 per cent of that quantity. Some say that the *pandanus* is not a perfect plant, that the seed pods sometimes ripen without being fertilized, but I do not know that this is true. I only give it to you for what it is worth." Most of the seed comes from Cuba and Brazil. *Cocos Weddelliana* is grown in large quantities, the majority of plants being in 3-inch pots, perfect in form and condition. *Phoenix* is also seen in quantity, mostly *reclinata*, the seed of this variety comes from Italy. *Latinas* were well represented, there being two houses of them, and selling well even now. There were also two houses of *Kentia Fosteriana* and *Behnoreana*, fine healthy plants in 5 and 6-inch pots.

Areca lutescens is the most largely grown variety and was to be seen in all sizes, there being a great many in from 6 to 10-inch pots, mostly 3 plants to a pot. Care is taken in potting to have different sizes planted together, as the pot presents a much prettier and more shapely appearance when ready for sale than if all plants were the same age when planted.

"You use slate as a weatherboarding for this lot of houses. Do you like it?"

"No, the wood rots out underneath and it is too much trouble to make repairs. We shall not use it again. We are putting up a lot of houses for palms here; there will be six of them 105x25, but they will practically be one house, as there will be no partition walls between; the gutters are six feet high and the height to the ridge pole is 12 feet, 6 inches. We save considerable room building them this way. We shall heat them with hot water under pressure."

"Why, I thought you were great advocates of steam."

"Well, so we are, but we have heard so much about hot water under pressure that we are going to give it a trial."

"Do you like these slate tables?"

"Like slate tables! Wish we had them in all the houses. There is no question they are the best."

"You seem to have a great many ferns."

"Yes, we have over 200,000 potted now. We keep them in these frames outside. They grow hardier and are not so likely to damp off. You see the sash are raised on supports about a foot above the frame, allowing for a free circulation of air."

"You have a nice arrangement for watering."

"Yes, you see the water pipe running across the middle of each range of frames with an outlet between every other frame and is raised so that you can walk under it. It is more out of the way arranged overhead and the men can work the hose easier then in winter; the water is easily drawn out."

Several frames were planted with *Ficus elastica*. These were one or two eye cuttings rooted in the propagating bed and planted out in the frames to be lifted and potted in the fall. Mr. Eisle expressed himself as being very well satisfied with this system. Two tanks of water lilies looked flourishing. A new variety *Nymphaea chromatella Marliacea*, a fine yellow flower 3 inches in diameter, a free

bloomer, is recommended. The old favorite the *camellia* is not forgotten and quite a stock is to be seen, most of which is sent south.

Mr. Eisle thinks that of the new *camas* *Alphonse Bouvier* is the best, it being very floriferous, a perfect color and a good grower.

He also thinks well of the *Croton*, which will be very largely used as a bedding plant in the future. K.

Baltimore.

Who says Washington is not a nice place to go to? Let him keep away from the Baltimore delegation who enjoyed the hospitality of the national capital while he says it, for all are agreed that, taking everything into consideration, the Strauss trip, the McLean reception, the Mt. Vernon trip, and the general experience of the week, they could hardly have had a better time. The boys mustered according to arrangement at the hall on the 16th at 7 a.m., and notwithstanding the early hour at which they had to leave home to be there, ninety-one put in an appearance and marched behind the band to Union Station. Of course more went over on later trains until the city was represented by close upon 100 wearers of the black button and orange ribbon, which badge, by the way, gave more general satisfaction than any we have had yet.

The first day was enjoyable enough, meeting old friends and listening to the addresses, in the morning partaking of refreshments and listening to the Marine Band at Mr. McLean's in the afternoon, but for hilarious jollity the ride to and from Strauss's greenhouses on the second day "took the cake," or what was left of it after the "races" at the said greenhouses. The races were immense, and though the little bow-legged, flea-bitten gray that won seemed a general favorite, it is the candid opinion of the scribe that the black stallion was the better horse, and was too heavily handicapped.

Another entertainment not down on the programme was the grand terpsichorean, musical and ventriloquial exhibition after the morning session on Tuesday. Though held in the open air and apparently gotten up without previous preparation, it was pronounced by all present a complete and brilliant success, and opinion was greatly divided as to whether the sprightly delicacy of the music, the easy grace and insouciance of the dancing, or the seductive blandness and insinuating persuasiveness of the collecting was the more praiseworthy feature. Taken altogether it was a great convention, indoors and out, and if St. Louis beats it, she will have to "hustle."

Business is a shade better, and there is a fairly good demand for reasonably good stuff. Prices are still low, gladioli becoming plentiful; so are tuberoses and dahlias.

As an illustration of what a lack of advertising will do: the Baltimore men were considerably surprised to find on exhibition at the armory in Washington sash lifting apparatus, iron extension gutter plate and several other devices for use in and about greenhouses, all patented, invented and for sale by a resident of Maryland, of whom and his inventions none of our members there present had ever heard. As his work seemed good and very low in price he was advised to carry an advertisement in the AMERICAN FLORIST so that the trade hereabouts might have a chance to patronize home products.

MACK.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, American Beauty, Perles, Duchess of Albany, La France, Niphetos, in 2 3 and 4 inch. Gontier, Mme. Hoste, Meteor, C. Mermet, Wootton, Bride, Bon Silene in 2 and 3 inch.

PRICES GIVEN ON APPLICATION.

A few fine Hybrids and Everbloomers left.

PALMS.

Latania Borbonica, fine large plants at \$4.00 and \$6.00 each. A few left at \$7.00, \$15.00 and \$20.00 per 100.

We will be pleased to see our friends that are passing through the city at any time. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

FERNS.

A. CUNEXIUM.

In fine shape to suit for winter cutting.

2-inch, \$4.00 per 100; \$30.00 per 1000.

3-inch, 5.00 per 100; 45.00 per 1000.

8-inch, 5.00 per dozen.

ROSES.

Mme. Chas. Wood, very strong, \$50 per 1000.

FORCING VARIETIES.

Meteor, Niphetos, Perle, Gontier, Guillot, Albany, Mermet, La France, Sunset, Beauty and Hoste.

A few more fine plants on hand in 3-inch pots, at \$6.00 per 100.

M. A. HUNT, Terre Haute, Ind.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS \$30.00 per 1000

HYBRIDS 40.00 per 1000

Also healthy plants, in 2-inch pots,

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

ROSES.

1000 ALBANY.

1000 LA FRANCE.

1000 MERMET.

From 3 and 3½-inch pots, in fine condition, equal in 1-inch pot stock. Price and samples on application.

NATHAN SMITH & SON, Adrian, Mich.

Roses for Forcing.

500 American Beauty, from 4-in. pots \$8.00
100 La France, from 4 & 5-in. pots 9.00

Strong and healthy stock, the 600 for \$40.

JOHN B. GOETZ,

2165 Mackinaw St., SAGINAW, (West Side), MICH.

Please mention the American Florist every time you write any of the advertisers on this page.

ROSES. FIELD GROWN, FOR FORCING.

GOOD, STRONG BUDDED PLANTS ON MANETTI ROOTS.

HOME GROWN MUCH SUPERIOR TO IMPORTED STOCK.

Mrs. J. H. Laing, Ulrich Brunner, Gen. Jacqueminot, Magna Charta, and a full list of leading Hybrid Perpetuals for greenhouse and garden planting.

LARGE LOT EXTRA FINE MOSS AND CLIMBING ROSES.

Our usual full assortment of Fruit and Ornamental Trees, Hardy Shrubs, Hardy Plants, Bulbs, Greenhouse Stock, Etc.

LET US ESTIMATE ON YOUR LIST OF WANTS FOR COMING SEASON.

Fall Catalogue and Trade List FREE, ready in August.

THE STORRS & HARRISON CO.,

PAINESVILLE, OHIO.

THE ATTENTION OF FLORISTS

and others is invited to our immense stock of *FIELD GROWN*

HYBRID PERPETUAL ROSES for FORCING,

Ready for Shipment October 1st.

The plants are principally 1 year budded low on Manetti, all of our own growing (which are superior to the imported) and embrace the best kinds suitable for the purpose. We have also a fine lot of Climbers and Mosses. Parties desiring particular varieties should send in their orders early as possible. Prices compare favorably with those of European growers.

CORRESPONDENCE SOLICITED. ORDER EARLY. CATALOGUE FREE.

ELLWANGER & BARRY,

Mount Hope Nurseries,

ROCHESTER, N. Y.

THE NEW ROSE BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

ROSES.

Waban, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, Souv. d'un ami.

Fine, healthy stock from 2½-inch pots \$5.00 per 100; \$5.00 per 1000.

SMILAX from 2½-in. pots, strong, \$3.00 per 100; \$25.00 per 1000. Send for price list.

WOOD BROTHERS, Fishkill, N. Y.

NOTICE.

Our roses are all sold.

We are now booking orders for Field Grown Carnations, of which we have about 50,000 plants. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

Carnations for Winter Flowering

BUTTERCUP, and all leading kinds. Established in pots. Roots kept intact. No risk in shipping. Write for prices including expressage.

A. S. MacBEAN, Lakewood, N. J.

3000 JACQUEMINOT ROSES,

from 3in. pots, \$5 per 100; 4in. pots, \$6 per 100.

2,000 Begonia Rex from 3in. pots, \$5 per 100.

3,000 English Ivies from 4in. pots, 2ft. high, \$5 per 100.

5,000 English Ivies, same size, lifted from open ground, \$3 per 100.

10,000 Violets, Marie Louise, strong June cuttings, rooted out door, positively no disease, \$2 per 100.

2,000 Bovardia Davidsonii and Alfred Neuner, from 3½-in. pots, \$5 per 100.

500 pots of Acorus variegata, strong plants, fine for trimming in funeral work, \$10 per 100.

All guaranteed to be vigorous and healthy.

Will exchange on reasonable terms for thrifty young stock of Bon Silene Roses.

JOHN RECK, Bridgeport, Conn.

When ordering mention AMERICAN FLORIST.

CARNATIONS

Strong plants, \$8.00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc., etc.

BOUVARDIAS Pres. Cleveland, Davidsonii, Pres.

Garfield, Bridal Bouquet, \$8.00 per 100.

PRIMROSES, 2½-inch pots, \$4.00 per 100.

WM A. BOCK, North Cambridge, Mass.

Mention American Florist.

Special Offer to American Trade

LOUIS DE SMET,

NURSEYMAN, GHENT, BELGIUM,

Offer as Specialties:

Palms, Azaleas, Araucaria excelsa (thousands), Bay Trees, Tuberosa Begonias,

Gloxinias. New Trade list on application.

Mention American Florist.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Aggregate;
Each, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE CARNATION, ITS HISTORY, PROPERTIES AND MANAGEMENT.

Literature upon this popular flower is always welcome, and especially at this time when the Divine Flower is meeting with more favor than usual, and when the subject is treated in an intelligent manner by a master-hand who has been in close touch with it his whole life long, it is doubly valuable and interesting.

The author, Mr. E. S. Dodwell, treats upon a different section of these favorite flowers from those which are popular in America, but what are recognized as good properties in a carnation in Europe are not detractions in our ever-blooming and winter-flowering varieties here. Especially is this so when it is understood that the varieties which are grown in such enormous quantities here are developments from the older sorts, as written about by Mr. Dodwell.

The book before us is the third edition, the first being published about the year 1885, the second in 1887, and the third during the present year. The title in the first and second editions of this book was "The Carnation and Picotee, Their History, etc.," but in the present edition the author makes a statement in NOTE FOR TITLE as follows: "The use of the conjunction 'and' before picotee in the earlier editions, following the method of former works and associations devoted to the culture of the flower, has been misleading, as suggesting a difference other than that of characterization, the picotee being simply a section of the carnation with the bizarre, flake, self, fancy or yellow ground. The generic term carnation is therefore only used." This change will be greeted with satisfaction by many florists here, for we frequently hear that certain varieties have some picotee blood in them or "it reminds me of the old picotee." Such expressions act like discords in music.

The History is a lecture delivered by the late Mr. Shirley Hibberd in the year 1881, before the Carnation and Picotee Society (of England), and which is considered by Mr. Dodwell "the most trustworthy sketch which has ever appeared." From this we quote as follows: "Indeed the dianthus family appear to have somewhat of the same social temper as the singing birds; they appear to love the habitations of man, and hence the prudent botanist who wants a specimen of the true typical Dianthus caryophyllus will begin to hunt for it on the castle walls, ruins, or on the roofs of old sheds and cottages." Another quotation will be appreciated: "It is interesting to note that two great authorities give the florists full credit for their making of the flower that has thus far occupied our attention to-day. Turner, writing about 1550, quaintly says: 'The garden

gardeners are made so pleasant and sweet with the labors and witt of man, and not by nature,' while Withering in the eighteenth century wrote: 'The art of floriculture, sometimes despised with a reprehensible degree of fastidiousness, has in this instance transformed a plant comparatively obscure into one of the most delightful charms which the lap of Flora contains.'"

As Mr. Dodwell has taken prizes with his carnations as long ago as 1850, it naturally follows that he knows something about their management. He favors firm potting. He says: "Firm potting gives us many advantages. In the first place it saves from the great injury of extreme saturation and its correlative evil, drought; and further, as soil well firmed is not subject to the excessive fluctuations of heat and cold, which follow that of a loose texture, and as experience and theory alike teach that successful cultivation depends upon the nearest realization of an equable temperature, gradually increasing according to the necessities of the plant, and the avoidance of sudden changes from heat to cold, and drought to moisture, firm potting going far to produce for us these conditions; therefore, I prescribe it. If the cultivator feels like making the experiment, to which, however, I do not recommend him, he will find that plants firmly potted are stouter in their growth than those in a loose soil, shorter jointed and have a much more fleshy root. But while thus recommending firm potting—more enforcing it as a first necessity—the cultivator must remember the mechanical condition of the soil must be appropriate. This should neither be so dry as to fall to dust, nor so clammy as to form, when pressed, a compact ball, impervious to the air. I do not know how better to describe its proper state than to say it should, when taken into the hand and pressed, readily cohere, showing the imprint of the fingers and palm, and when pressed the opposite way as readily crumble."

Every month has its duties in the successful cultivation of the carnation, no matter whether it is for exhibition in July in Europe or whether the results are looked forward to for winter-flowering in America. We may adjust the knowledge gleaned so as to suit our own particular wants. It is a pleasure to read the details as laid down by Mr. Dodwell for each month of the year, and as quality in carnations is to play a very important part in the future, these details could with profit be read by all who are interested. Such points as those which follow are frequent all throughout the book. "Dishud as soon as the young buds can be conveniently removed." "As the buds swell, a gentle application of weak manure-water will greatly assist them." "Hybridization, or fertilization of the flowers for seed should be diligently attended to." "Leave nothing to chance." "The raising of seedlings is the opening up of a new world, a world of sensations, surprises, delights. Every step is a new enjoyment." "It must be borne in mind that amongst carnations as with all things in nature no advance upon existing beauty will be obtained save by a resort to the best types for parents, and by their judicious employment."

A chapter on what constitutes excellence is also interesting: "Size"—mere size I think Mr. Dodwell means—"as a point of excellence deserves the least consideration. Any limit between 24 inches as a minimum and 3½ inches as a maxi-

mum will be found to afford ample ground for admiration." This is getting quite close to the size which has been set by American enthusiasts. Mr. Dodwell, continuing, says: "In competition, other points being equal, of course the larger size would win."

The chapter on "Dressing the Flowers" will be read with interest by many, for, although the practice may never find much favor here, it is worth knowing how to begin where Dame Nature leaves off, and perfect what she has left imperfect. "Diseases of the Carnation" could be read with profit, and "Differences of Habit, induced by Mode of Propagation," would give food for thought.

There are between two hundred and three hundred varieties described. The descriptions are elaborate and appear to be faithful, and carry conviction that they are done by a loving hand.

The additions to the present edition are a supplementary chapter on yellow varieties, and a descriptive list of a number of this desirable class of carnations of the author's own raising. It is with much pleasure that this little volume is recommended to all who are interested in horticulture, feeling assured that all who peruse its overflowing pages will be amply repaid for their trouble. E. L.

THE WASHINGTON CONVENTION.

Readers of the FLORIST who for the past eight years have read with interest the accounts of our annual conventions, and each succeeding year been told that the last exceeded all, will, unless they have frequently been in personal attendance, feel their credulity drawn upon when we claim this Washington meeting to be again the largest, best arranged and most satisfactorily carried out of all.

Experience is a good school. The working machinery of the S. A. F. directed by its efficient secretary, Mr. Stewart, has, with the wise assistance and liberal entertainment of the National Gardeners' Club, made the occasion one to be pleasantly remembered by every visitor whether grower, exhibitor, botanist, bowler or sight-seer.

Washington in August proved warm it is true, but not as hot as was feared, and its location and attractions seem to have tempted the largest gathering yet recorded by our society. The work goes bravely on. Now for St. Louis—and the World's Columbian Exposition.

ALL members of the S. A. F. in good standing and who were unable to attend the Washington convention may secure copies of the souvenir presented to members of the society, by applying early to C. F. Hale, 719 14th street, Washington, D. C., accompanying the application with 6 cents in stamps to pay postage.

Flowers Wanted.

We wish to engage a regular supply of flowers to fill our standing orders for the coming season. We make a specialty of filling these order direct from the growers. They are regular daily, tri-weekly and semi-weekly, and will pay full value, but **must be choice stock**, ordinary common stock will not answer. Growers, **having first class stock in prospect**, please correspond with us early.

The Wisconsin Flower Exchange.

133 Mason St., MILWAUKEE, WIS.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Mention American Florist

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

McKELLAR & SPERRY,
Wholesale Commission Florists
128 & 129 MICHIGAN AVE.,
Near Madison St., CHICAGO.

Store open Day and Night, excepting Sundays we close at 10.00.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS,
Lists, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN).
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.
Mention American Florist.

WM. ELLISON,
(Late of ELLISON & KUEHN).
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

FLORAL DESIGNS.
The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to
J. HORACE MCFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

	NEW YORK, Aug. 21
Roses.....	5000 1 50
Beauty.....	4 100 12 10
Carnations.....	500 1 00
Valley.....	4 000 5 00
Gladioluses.....	500 1 50
Sweet peas.....	500 35
Asters.....	3500 50
Adiantums.....	500 1 00
Smilax.....	12 000 20 00

	BOSTON, Aug. 21
Roses.....	2 000 4 00
Carnations.....	1 000 1 50
Gladioluses.....	2 000 3 00
Pink Pond Lilies.....	8 00
Adiantum.....	1 00
Smilax.....	12 50
Asparagus.....	50 00

	PHILADELPHIA, Aug. 21
Roses, La France, Albany, Brides.....	2 000 3 00
Perles, Niphetos.....	2 000 3 00
Marie Guillots.....	2 00
Sweet peas.....	500 40
Gladioluses.....	2 000 4 10
Tuberose.....	4 10
Carnations.....	75
Asters.....	500 75
Adiantum.....	1 00
Smilax.....	15 00

	CHICAGO, Aug. 23.
Roses, Perle, Niphetos, Gontier.....	2 000 4 00
Carnations, long.....	1 00
short.....	75
Smilax.....	1 500 2 00
Asters.....	500 40
Auratum, doz.....	75 6 1 00
Gladiolus, doz.....	45 4 60

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies

WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES.

1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.
Mention American Florist.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN AND FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST
34 W. 29TH ST., NEW YORK.

SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHR'S,
— WHOLESALE —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

WHOLESALE
FLORISTS
De Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist
SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

OBITUARY.

FRANCIS T. M'FADDEN.

F. T. McFadden, whose death was announced during the progress of the Washington convention, was widely known among newspaper men as a pioneer in the art of newspaper advertising, while his interest in horticulture made him a familiar figure at many trade gatherings.

He was born in Zanesville, Ohio, fifty years ago. After serving through the war in an Ohio regiment he entered the office of the *Cincinnati Enquirer*. Some years later he began business on his own account as an advertising agent. He displayed great ability in his chosen line and in course of time amassed a large fortune by it.

Always interested in flowers he exercised his taste in the arrangement of garden and greenhouses at his home, near Cincinnati. He appreciated the society of horticulturists, making many friends among them. Of late years he passed from the amateur to the professional stage, erecting greenhouses for market purposes.

Mr. McFadden's wife and daughter were in Europe at the time of his death, which was entirely unexpected, and were unable to reach this country until after his interment.

Springfield, Ohio.

Judging from appearances the florists of Springfield are prospering, as extensive additions to greenhouses are being made. A. R. Aldrich is adding two houses, each 20x80, to be used for carnations and roses. McGregg Bros. have built three houses 20x125 and two houses 12x125 for roses and smilax; they have also added a bulb room and extended their packing shed. The Good & Reese Co. have built six houses 20x110, an addition to packing shed 15x100, also an office and seed store 60x20, two stories. Probably more rose plants are distributed from Springfield than from any other point in the U. S. One of the employees of Good & Reese has just completed a unique ventilating apparatus (patent applied for) which this company has introduced in their entire plant. No pipe is used and no iron is used in its construction larger than 3/8", except the brake shaft. Two of their houses, each 20x225, are ventilated from the center, using only one wheel to each house and raising 25 sash, which is easily worked. It raises ventilators to any desired height and locks them there and they can not move when down, as they are held as in a vise. Its merits are, first, cheapness, being one third less than pipe apparatus; second, each sash is raised the same under every and all circumstances and no adjustment is ever needed after once being put up; third, in long houses it can be placed either in center or end of same, as there is no pipe to spring, length of line or house does not effect its working. It raises sash on both sides of the house and from both ends of the house (when placed in the center) from one wheel, altogether a model apparatus.

The South Side Floral Co. has just completed a new addition to their greenhouse plant, consisting of four houses covering over 10,000 square feet of glass, devoted exclusively to rose growing.

INDIANAPOLIS, IND.—The Florists' Club is debating arrangements for a spring exhibition, considering that a flower show at that season would be of even greater interest than in the fall.

MINNEAPOLIS, MINN.—The Minneapolis Florist Club held its last meeting the 13th inst.; it was well attended. The chrysanthemum prize list was gone over and finally adopted. The time set for the show is November 8, 9, 10 and 11. As they had no hall rented yet it was thought best not to have the premium list printed until the place could be designated in it. The secretary was authorized to have enough premium lists typewritten to send one to each of the florists in the city. No other business was transacted. N.

MEMPHIS, TENN.—Weather cooler and considerable rain. Roses about all planted and from the outlook at this time there will be a greater supply this winter than last, and instead of shipping roses in there will be roses to ship out; although last winter there were roses shipped in by some of the florists here and at the same time shipped out by others, but all seem to have a good many planted this season.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a thoroughly practical gardener and florist; single. Private preferred. Address N. W. care Ann Lee Hotel, Chicago.

SITUATION WANTED—By a young, active, experienced florist, sober, References. Address W. care Reaman & Co., 3 Mass. Ave., Indianapolis, Ind.

SITUATION WANTED—By a first-class florist; married. German, 38 years old; 13 years experience. Prefer private places. Address Oct. 192 G. H. HENNINGER, Ekhart Lake, Wis.

SITUATION WANTED—By a young man in houses, single, foreign or 7 years experience. Good references. Address J. McCULLAGH, care Capt. Robinson, Hazelwood, Pittsburg, Pa.

SITUATION WANTED—By a young German florist just come to this country. Salary not so much an object as good opportunity to learn English. PAUL MAUER, care E. Power, Frankfurt, Ky.

SITUATION WANTED—As florist and gardener, or as working partner without capital by an experienced man in propagating and rose growing; also good designer. Address W. W. care Ann Florist.

SITUATION WANTED—By a young man, 22, willing to work as assistant in private or commercial place; he has had 6 years' experience. Address H. H. 435 Tenth St. (rear), Hyde Park, Scranton, Pa.

SITUATION WANTED—By a florist list of October 5 after 8 years' experience in Europe and U. S. age 27, single, skilled designer and decorator, Chicago preferred. T. NORMAN, Kaye's Park, Lake Geneva, Wis.

SITUATION WANTED—As florist or gardener; capable of taking charge of a large establishment, commercial or private; 15 years experience in all branches. First-class references. Married. Address M. care Mr. Gasser, Rockport, Ohio.

SITUATION WANTED—In private place by married man, no children; 25 years' experience, half in the country. Rose growing, general greenhouse work, landscape gardening. Highest references. Address L. K. care Ann Florist, Chicago.

WANTED—A second-hand No. 5 Weathered boiler in perfect order. State price. C. E. A. FIELD, 1821 Diversey Boul., Chicago.

WANTED—A man for general greenhouse work; wages \$50 per month. State experience and age. Address SEATTLE FLORAL CO., corner 3rd and Cedar Sts. Seattle, Washington.

WANTED—PARTNER—Great chance for single German florist and rose grower. Partner good nursery business in large western town. \$500 required. Address B. care American Florist.

WANTED—A good, competent florist, a grower of plants and cut flowers; one who understands decorating and putting up designs and cut flowers. State age and give references. Address N. ADMIRAL, Danville, Ill.

WANTED—A competent gardener and florist, to take charge of garden, lawn and greenhouse; single man preferred. Host of references required. Permanent employment if satisfactory. O. R. LONG, Sup't. State Asylum, Indianapolis, Ind.

WANTED—A good florist; a man of practical knowledge and experience in this profession—none other need apply. A steady job and good treatment a single man. German preferred. Address OTTO BAUMANN, 463 S. Walter St., Manistee, Mich.

WANTED AT ONCE—A good, steady, sober, honest rose, plant and cut flower grower; also must have some experience in designs—no others need apply. State references. References required. Address WM. A. ROCK, North Cambridge, Mass.

FOR SALE David Smith boiler No. 5, in use 6 years. Address J. B. BRYAN, 1011 North Dearborn, Chicago.

FOR SALE Locomotive steam boiler, 20 horse power, in good condition. Address JOS. F. SMITH, East Burlington, N. J.

FOR SALE—One No. 6 Weathered hot water boiler, price \$100; also 2 1/2 inch 4-inch pipe at half price. Address MRS. GEO. A. SNOW, New York, Mich.

FOR SALE—A florist at to with greenhouses atached, doing a first-class business. For particulars apply to W. ELLISON, 242 Olive St., St. Louis, Mo.

FOR SALE OR LEASE Old established florist plant business. 7 greenhouses, inside Chicago limits, city water good location. Bargain. Address H. care American Florist, Chicago.

FOR SALE—Flower store, 121 Michigan Ave. between Madison and Monroe Sts. Cheap rent, plate glass window 3 feet across. Must sell at once; have two places, cannot attend to both.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City. Stock and houses in A1 condition. Florist stock, mostly American Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care Ann Florist.

FOR SALE AT A BARGAIN—Only greenhouses in city; 6,000 feet of glass; 4 greenhouses in good repair, stock and property. Fine stock of plants; splendid trade all year. 5 acres land, small fruit-trip crop this season. Everything being prepared for this winter's home. Come for a look at the house, barn, etc. Will exchange for farm or other property. Write to W. J. BINGAR, Fremont, Neb.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and headed by steam; gravity 80 feet long, just coming into bearing, recently built; 30 acres of land; abundance of fruit; large house containing 15 rooms, new barn; within 35 miles of Chicago and one mile from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARKIN, Toughenborough, Chester Co., Pa.

FOR SALE OR RENT—Two greenhouses 12x18 ft. each, on lot 15x125 ft. in very good location in fast growing town in Missouri, 4,000 inhabitants. The property is valuable and nicely laid out and improved. Plenty of fruit stock and one mile from station. Will be sold on account of ill health. Must sell at once as I have engaged in other business. Address C. care American Florist, Chicago.

FOR SALE.

A first-class greenhouse plant; 6 houses on valuable building land; 7 miles from city hall, Boston; city water; built on the most improved plan and in full growing order. The building is of the best material with capital. Owner has to change place of residence. For particulars address B. C. care American Florist, Chicago.

FOR SALE.

One No. 5 Weathered boiler and 9.0 feet 4-inch pipe GLASS 4,000 feet of single and 150 feet 1/2 inch double thick 31 sash 3x4 glass 6x8 single. 15,000 pots, various sizes. 5,000 Chrysanthemums, 2,000 Geraniums, 5,000 Fuchsias. Write for full information.

S. B. FIELD, Roselle, N. J.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

NEXT!

We have planted out most of the Begonias for tubers, but keep some ready for shipping in 2-inch pots, \$4.00 and \$4.50 per 100.

BRAUER & RICHTER, McConnellsville, Ohio.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Mocking Plum, Marbled and Hard cherry, Angers Quince, Small Evergreen, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. American and Canada.

C. C. ABEL & Co., P. O. Box 920, New York.

Good Heavy Smilax.

Any quantity, \$15.00 per 100.

WALTER BONFIELD,
LITTLE FALLS, N. Y.

Dutch Bulbs.

Krelage's Wholesale Bulb List

for the present season (No. 460) is now ready and will be sent gratis and post free to nurserymen, seedsmen and florists only.

A GENERAL DESCRIPTIVE CATALOGUE

may be had also gratis and post free. First part (No. 455 A) containing **Gladioli** and all other Bulbs for Spring planting, was published in January. Second part (No. 455 B) devoted to **Dutch Bulbs, Etc.**, to be published as soon as possible.

Please write directly to

E. M. KRELAGE & SON,
HAARLEM, HOLLAND.

MUSHROOMS FOR THE MILLION



There's money in growing Mushrooms. Constant demand at good prices. Any one with a cellar or stable can do it. Our Primer and Price list tells how to grow them. Free. Send for it. A trial brick of Spavin (enough for a 3x4 experiment), by mail, postpaid, for 25c. By express, 8 lb. for \$1.00; 15 lb. for \$2.00; 50 lb. for \$5.00. Special rates on large lots. JOHN GARDNER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa. **Gardner's Seeds**—New Catalogue for 1892 now ready. Free. Send for it.

APPLE GERANIUM SEED, fresh seed, just received, per 100 seeds, 25c; 1000 seeds \$1.25.
CYCLOMENS. We have an extra fine strain. **Cyclamen Persicum**, flower mixed, 1/4 ounce, \$1.00; Pkt. 25c.
Emperor William, dark crimson, 50 seeds, 25c.
Giganteum Album, Most Bicolor, pure white, 50 seeds, 50c.
Deep crimson, very large, 50 seeds, 25c.
Atropurpureum, flowers large & d deep, red, 50 seeds, 50c.
Saccolineum, new blood red, 20 seeds, 50c.
Giant Flowered Varieties, extra choice mixed, 50 seeds, 50c; 1/4 ounce, \$2.10.

J. C. VAUGHAN,

12 Barclay Street, New York. 146 W. Washington St. CHICAGO.

LILIAM HARRISII.

Solid well-ripened Bulbs.

7 to 9-inch, per 100, \$5.50; per 1000, \$50.00
9 to 12 " " 11.00; " 100.00

All bulbs for florists in season.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO

Grevillea Robusta.

Per doz. Per 100
2 1/2-in. pots, 12 in. high.....\$1.00 \$ 8.00
3-inch pots, 15 in. high..... 1.50 12.00
3 1/2-in. pots, 18 in. high..... 3.00
6-inch pots, 24 to 30 in. high.... 6.00

NATHAN SMITH & SON,
ADRIAN, MICH.
Mention American Florist.

C. G. VAN TUBERGEN, Jr.,
HAARLEM, HOLLAND,
Grower and cultivator of choice Dutch bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents.

C. C. ABEL & CO., P. O. Box 920, New York.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Duc Von Thol Tulips.

SPECIAL.



Our agent has secured very low rates on these valuable early forcing Tulips by buying in large lots, and we are able to make the following SPECIAL. Order now.

	Per 1000	Per 100
Scarlet.....	\$4.25	\$.60
Red and Yellow.....	7.25	.85
Rose.....	17.50	2.00
White.....	17.00	1.90

We make a Specialty of all Bulbs for Florists Forcing
"IN SEASON."

NEW YORK:
12 Barclay Street.

J. G. VAUGHAN,

CHICAGO:
P. O. Box 688.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000..... 72.50

50,000.....337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

CYCLAMENS.

Strong plants for potting on.

\$7.00.....PER HUNDRED.

\$60.00.....PER THOUSAND.

DAVID ALLAN, Mt. Auburn, Mass.

LILIAM HARRISII.

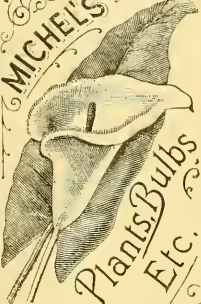
Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

MICHEL'S



Plants, Bulbs, Etc.

Write for wholesale list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,

3 COENTIES SLIP, NEW YORK
Mention American Florist.

Chrysanthemums.

2 1/2-inch pots, 20 leading sorts for cut flowers, \$3.00 per 100. The same, 3 1/2-inch pots, \$4.00.

CYCLAMEN PERSICUM GIGANTEUM,
assorted colors, 2 1/2-inch pots, \$5.00 per 100. Same from 3-inch pots, \$3.00 per 100.

Address **J. G. Burrow,**
FISHKILL, N Y

Philadelphia.

Didn't we have a grand time. Hurrah for Smith, Hale, Freeman, Clark and all the rest of the boys who fairly outdid themselves in making our visit one never to be forgotten. Monday morning all was hurry and bustle. The committee on decorating cars was early on hand and under the directions of Chief Heron soon had them fit for a queen to ride in. The committee certainly deserve great credit for the very complete manner in which they did their work. The reception committee headed by Edwin Lonsdale was at the station to meet the brethren from New York and Boston who arrived about 12:20 and were escorted to Horticultural Hall, the ladies in busses while the gentlemen were marched down in a body. Arriving at the hall the delegates were welcomed in a few fitting words by President Craig, and immediately proceeded to do justice to the lunch provided. The hall presented a very neat appearance, the stage and tables being nicely decorated, John Westcott had charge of the arrangements here and everything passed off pleasantly as a matter of course. Returning to the station the Phila. folks boarded their special train, which pulled out about 2:40, followed in a few minutes by New York and Boston. One of their members, not the largest in stature, but great elsewhere, was captured by the Phila. boys. His name is Wood, "Little Woody" they call him for short, but the man that can find anything small about "Woody" has not been seen or heard from up to date; his songs and stories on the way down were the inside features of the trip. There was a band on board and they played, music? well, maybe they thought it was, they blew hard enough and long enough, but as they didn't seem to get tune enough they finally adjourned to the baggage car. The Phila. edition of John Thorpe was a very energetic member of the band, and we doubt if the original John could have done any better. Arriving in Washington about 6 p. m. a dash was made for the hotels, most of the club going to the Ebbitt House, where an hour was spent getting rooms and removing the dust of the journey, after which it was one continual round of pleasure and sight seeing, aside from the time spent in committees and on convention work. There was so much to see, so many places of interest to go to that not an idle moment was spent and it was Saturday and time to go home long before we were ready for it. The entertainments given by Messrs. Freeman and Strauss & Co. were largely attended and everybody seemed to enjoy themselves hugely. To the bowling contingent the Columbia Club was a pleasant place to visit and as the time for the match to take place drew near the pin boys were kept busy setting them up for prospective medal winners. We forbear for several reasons, principally modesty, from saying very much about the match except to praise the work of Capt. Anderson, whose brilliant finish, together with the good work of Brown, did so much to place us in the lead, and also in the second game when Craig showed the boys he could put up as good a game as any of them, and thereby put us in a safe position for the prize. We felt then as if we ought to shout just a little. Mr. Doran's score, 204, was a dandy, and we extend congratulations, as he has made a new record, the former highest score made in the matches during former conventions being 197. K.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 " 70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

Asparagus Plumosus Nanus.

NOW, when you have your houses ready for planting, fill them with something that will bring you the biggest returns. This is just what *Asparagus plumosus nanus* will do, and we offer strong plants, full of roots, in the following sizes:

	Per 12	Per 100	Per 1000
4-inch pots.....	\$6.50	\$50.00	\$450.00
5-inch pots.....	7.50	60.00	550.00
6-inch pots.....	8.50	70.00	650.00
7-inch pots.....	9.50	80.00	750.00

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

MUMS.

NOVELTIES OF '92.

MRS. E. D. ADAMS, ROSLYN,
GEO. W. CHILDS, W. A. MANDA,
fine plants from 2½-in. pots, 25c. each; \$2.50 per doz.
¾-in. pots, 35c. each; \$3.50 per doz.

DOUBLE SWEET ALYSSEUM,

from 2½-inch pots, \$2.50 per 100.

STEVIA, very stocky plants,

from 2½-inch pots, \$2.00 per 100.
from ¾-inch pots, \$5.00 per 100.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

CABBAGE PLANTS.

BEST LATE FLAT DUTCH,

\$1.50 per 1000; \$6.00 per 5000; \$10.00 per 10,000.

CASH WITH ORDER. —

S. O. STREBY,


Lock Box 77. UPPER SANDUSKY, OHIO.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

DARWIN TULIPS

are now generally recognized as the best strain of self-colored late Tulips in the trade. Please consult special descriptive list (No. 511) containing 300 distinct varieties. Same will be mailed gratis and post free, including supplement on nearly 40 certificated varieties, on application to

E. H. KRELAG & SON,
HAARLEM, HOLLAND.

17 Special terms to the trade. 
Mention American Florist.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. OUWERKERK,

P. O. Box 1845.

NEW YORK.

SEND FOR A COPY

— OF OUR —

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO.

ADANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:

- 1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
- 2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
- 3rd. It requires no season of rest.
- 4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:

- 1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
- 2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:

Because it lasts three times as long as Cuneatum. Customers ordering in our store should invariably ask for the kind that don't wilt. In buying see that you get the true variety, as it has many aliases. Price, strong plants, \$8 per 100. Owing to the heavy demand our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

CHINESE PEONIES

are grown in **500** distinct varieties in **Krelage's** Nurseries at Haarlem, Holland. Please write for special descriptive catalogue (No. 512), containing exact descriptions of over 500 varieties, cultural directions, etc., to

E. H. KRELAGE & SON,
HAARLEM, HOLLAND.

SPECIAL TERMS TO THE TRADE.
Mention American Florist.

AUG. TOEFFAERT,
GHENT, BELGIUM.
Palms, Azalea Indica,
TUBEROUS BEGONIAS.

TRADE LIST ON APPLICATION.



TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
and free to the trade only.

HENRY A. DREER,
Philadelphia

PALMS.

KENTIA BELMOREANA and **KENTIA FORSTERIANA**,
in 3-inch pots, **VERY FINE PLANTS**,
\$50.00 per 100.

EDWIN LONSDALE, Florist,

Chestnut Hill, PHILADELPHIA, PA.
Money Order Office, Station "H".
Mention American Florist.

Zirngiebel's
GIANT MARKET and FANCY PANSIES

New crop seeds of those superb strains now
ready, in trade packets of 1,500 and 600
seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

You will benefit The American Florist
by mentioning it every time you write
an advertiser in these columns.

G. BENARD, Orleans, France.

Established 1849.

ROSES AND YOUNG PLANTS A SPECIALTY.

Particular offer of fine plants in large quantities.

ROSES ON OWN ROOTS, HYBRID, ROUBRON, ETC., such as	Per 1000
La France, Ulrich Brunner, Captain Christy, etc.	\$ 40.00
On own roots, or grafted on Dog rose, Tea and Noisette, such as Marechal Niel, Marie Van Houtte, Catherine Mermet, etc.	\$50.00 to 55.00
Hermosa, Common Bengal, etc., 1st choice	17.50
On own roots, extra choice	25.00
Crande-Supereur, Eugene de Beauharnais, etc., 1st choice	19.00
Extra choice	34.00
Madame Laurette de Messimy	40.00
Mlle. Augustine Guinlossier (or White flowering France)	49.00
Climbing Roses, assorted, my choice of varieties, such as Ruga, Folcite, Perpetue, etc.	15.00

AMPELOPS VITICUL, 1 year transplanted	4.50
RHUS COTINUS, 1 year transplanted	3.00
WHITE MULBERRY, very fine, 2 years transplanted	2.50
DEUTZIA GRACILIS, 2 years	3.50
HYDRANGEA PANCULATA GRANDIFLORA, 2 years	13.00
LYNETH VITICUL, 2 years	4.00
LILAC CHARLES X, 2 years grafted	24.00

in pots, 1st choice, for forcing, \$17.00 per 100; same, extra, \$30.00 per 100
Information apply to

G. RAOUX, P. O. Box 2938, 296 Pearl Street, NEW YORK,

or E. BENARD, P. O. Box 620, SAN DIEGO, CAL.,

Sole Agents for the United States and Canada.

General Catalogue to be issued in September, will be sent free to all applicants.

PANSIES.

AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

That is what my customers say, and they are in all parts of the United States and Canada—Maine to California, and Montreal to the Gulf of Mexico.

It care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after,
at 75 cents per 100; \$5.00 per 1000.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

FICUS ELASTICA.

Extra strong plants, 6-inch pots, \$50.00 per 100.

WM. WARNER HARPER, ANDORRA NURSERIES,
MANAGER.
CHESTNUT HILL, PHILADELPHIA, PA

Big Pansies.

You can't miss it with the **GIANT MARKET STRAIN** (Zirngiebel's). It is superb. Stocky seedlings 75c. per 100; \$5 per 1000. Strong transplanted plants ready Sept. 25, \$1.25 per 100; \$10 per 1000. Send your orders NOW.

ALEX. MCBRIDE, Alplaus, N. Y.

PANSIES.

CASSIER, BUGNOT and ODDER STRAINS, which for size form, substance and beautiful coloring are unrivaled. Endorsed by the best judges of Europe and America. From imported seed, and warranted genuine. Strong plants Sept. 1st, by mail, \$2.00 per 100; \$18.00 per 1000.
Splendid English, all colors, very fine, assorted, 75 cents per 100; \$5.00 per 1000.

F. A. ELLER,
BLOOMINGTON, ILL.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of **FRUIT and ORNAMENTAL TREES**, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, **FRUIT and FOREST TREE SEEDLINGS**. Priced Catalogue mailed free. Established 1852
PHOENIX NURSERY COMPANY
Successors to NINETY TUTTLE & CO., BLOOMINGTON, ILL.

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT
BLOOMING VARIETIES.

All the newest and choicest in cultivation. Catalogues free. Special trade rate.

WM. TRICKER, Dongan Hills, S. I., N. Y.

PANSY SEED.

The Jennings strain of large-flowering and fancy Pansies. You want this strain of Pansies if you want the best. Stock all carefully grown by myself, and first-class for every respect. To all my old patrons, will say, they will find a decided improvement from last year.

Finest mixed, all colors, pkt. 25c, 50c, and \$1 each.
Ounce, \$1.00; 3 or more ounces, \$5.00 per ounce.
Large yellow, black eye and pure white, in separate pkts. 50c and \$1.00 each, free by mail.

Pansy plants ready Sept. 1, 60c. per 100; \$5 per 1000

E. B. JENNINGS,
CARLTON, VIOLET and PANSY GROWER,
Lock Box 284, SOUTHPORT, CONN.

Mention American Florist.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

ORCHIDS.

The finest stock in the WORLD. Nearly 875 acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

MARSCHUETZ & CO.,

FLORISTS' SUPPLIES,

23 & 25 N. 4th St, PHILADELPHIA, PA.

Send for Catalogue.

Toronto.

Those of us here who from various causes were unable to attend the convention of the S. A. F. at Washington are there in spirit if not in propria persona and are anxiously looking forward to the reports of the proceedings. From what we read in the papers it seems probable that the Toronto and Buffalo delegates will have to charter a canal boat to get home; if so I suppose they may be expected to arrive sometime before the close of navigation, probably just in time for the chrysanthemum show. The writer regretted much (and wept copiously) his inability to attend the convention, but as the distance was too great for walking he was obliged to relinquish the idea. He, however, pasted the collection of portraits from the FLORIST on to one sheet, hung them up in his potting shed and sat down opposite to contemplate them and allow his imagination to run riot among essays on the destruction of greenfly, mealy bug, etc., the Capitol, the question box, the White House, the next place of meeting, bowling tournament, Botanic Garden, excursions, election of officers, banquets and other matters of business and jollification too numerous to mention.

The club held its regular meeting on the 16th, which was rather slimly attended, not more than 25 or 30 putting in an appearance. Judges were chosen for the chrysanthemum show. The proposal for having a picnic fell flat and probably will not materialize. A question box was started and several questions put in for discussion next month.

I visited the establishment of Messrs. Spears & Muston at Deer Park this week, but found Mr. Muston away at the convention and Mr. Spears down town attending to business, however, Mr. Spears, Jr., acted as guide in their stead. A house of roses planted for summer blooming was in fine trim and showing an immense quantity of bloom and bud. Two other houses 140 feet long had just been planted, the plants looking very promising; they will no doubt be more interesting about Christmas time. In another house was an extensive stock of chrysanthemums in fine health with short stout growth and leaves down to the pots. A batch of adiantums in a north side propagating house was also looking very healthy and of a good dark green color. The firm also grows a large stock of carnations and violets. The heating is done partly by steam and partly by hot water. A windmill pumps all the water used. Altogether the establishment showed that some pushing men were at the head of it and were well up with the times. Deer Park is a suburb of Toronto between two and three miles out.

Very little business doing; now and then a little breeze springs up and dies out again. E.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARACARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

MICHIGAN
Wild Flowers

Orchids, Ferns, Shrubs and Trees, Bog Plants and Aquatics, for parks, flower gardens, rockeries, bogs, ornamental waters and carp ponds. The World's Columbian Exposition buys them. Retail, Wholesale and Carp Pond Catalogues, each free.

WILFRED A. BROTHERTON,
ROCHESTER, MICH.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's crop of the choice Sweet Pea varieties, named and mixed, that we grow. Please send for trade list.

FOR IMMEDIATE ACCEPTANCE WE OFFER

Callia Lily Bulbs, 4 to 5 inches in circumference, \$30.00 per 1000. Prices on larger sizes on application.

Fresia refracta alba, good flowering bulbs, \$3.00 per 1000.

Marie Louise Violets, strong runners, free from disease, \$20.00 per 1000.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

FLORISTS OR OTHERS
DO YOU BUY IN A CASH MARKET?
PAINT THAT WILL WEAR WELL,
OR PUTTY THAT WILL STICK.

We make paints, because we know how, ship to all Railroad Stations or Boat Landings without regard to distance, and will make prices for goods laid down at your Station at figures that will pay you to patronize us, if you buy in a cash market. Try it!

Correspondence solicited, and all inquiries treated considerably and courteously.

HAMMOND'S PAINT AND SLUG SHOT WORKS,

N. E. Corner Long Dock.

FISHKILL-ON-HUDSON, N. Y.

ESTABLISHED 1835.

THE OLDEST NURSERY IN THE STATE.

"AND STILL THEY COME!"

Our orders for Pot Grown Strawberries are already several thousand ahead of last year, and still the orders come. Have you sent yours yet? There is money in it for you. Try it. Don't forget our large stock of Parker Earle. Terms to suit purchasers, or 12 list, upon satisfactory reference.

ROGERS' NURSERIES,

Isaac C. Rogers.

MOORESTOWN, NEW JERSEY.

Mention American Florist.

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

THE ILLINOIS MALLEABLE IRON CO.,

30 & 32 W. MONROE ST. CHICAGO. 581 & 601 DIVERSEY AVE.

Manufacturers and Dealers in

HEATING • APPLIANCES
AND SUPPLIES.

Very Cheap Plants

FOR SALE OR EXCHANGE.

Fancy-leaved Caladium, 2½-inch pots, \$5.00 per 100

Cape Jasmines, 2½-inch pots, \$5.00 per 100

Poinsettias, 3 colors, 2½-inch pots, \$1.00 per 100

Blue Water Lilies, 2½-inch pots, \$1.00 per dozen

Other aquatics as cheap in proportion

Rooted Cuttings Cape Jasmines, \$1 per 100; \$3 per 1000

Bouvardias \$1.00 per 100

I will sell the above for cash, or exchange same, as

well as large Palms and other foliage plants, for

winter flowering bulbs. Address

F. J. ULRICHT, Florist, Annapolis, Ala.

Mention American Florist.

BEGONIAS. Per 100

Rex fine assortment, \$3.00

Rex Lucy Closson, 10.00

Listri or Diadem, 6.00

Argentina Gutta, 4.00

Meiseca, 2½ in., 4.00

" 3½ in., 8.00

Hydrangeas Thos. Hogg, Otaksa 2½ in., . . . 4.00

" Red Branched 2½ in., 6.00

Send for list of field grown Carnations and Violets.

I. N. KRAMER & SON. MARION IOWA.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIMUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

BIG! BIG! BIG!
BIG WHAT?

Big Daisy Snow Crest.

BIG plants, BIG roots, BIG leaves, BIG
long stems, BIG flowers, BIG crop, BIG
sales, BIG profits, BIG satisfaction all round.
There will be a BIG lot wanted. Order
early and get a BIG start and help supply
the BIG demand. 25,000 now on hand,
\$1.50 per doz.; \$10 per 100; \$80 per 1000.

200,000 would scarcely suffice to supply
all who ought to have it with a few plants
to start with. Remember when we are sold
out we are done, there has been no substi-
tute found yet for this Daisy. SNOW-
FLAKE, good as it is, can not compare with
it. A few hundred of the latter still on
hand, \$1.50 per 100; \$12.00 per 1000.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E.

NEW YORK.

PRIMROSES.

Plants now ready for 3-inch pots. Twelve
sorts; flowers all fringed, large,
and brilliant colors.

Price for the single, per 100 plants.....\$ 2.50
" double (white and red) per 100..... 5.00

We send additional plants with each order to pay
good part of the express charges.

Remittance may be made by M. O. on our P. O.

Address **HENRY S. RUPP & SONS,**
Shirmanstown, Pa.

JULES DE COCK, NURSERYMAN,

Ledeberg, Ghent, Belgium,

offers ARAUCARIAS, ASPIDISTRA, AZALEA INDICA,
DRACÆNAS, PALMS LAURUS TINUS and NOBILIS
with crowns or pyramids, SPIRÆA JAPONICA,
and AUR. RET., all by the thousand. Packing
free for cash with order.

Price list on application,

SPAULDING'S MAMMOTH STRAIN —OF— TUBEROUS BEGONIAS.

The above strain I claim to stand unrivaled, equal to any, surpassed by none.
Trusses immense, ranging in size from 4 to 6 inches, of the most intense and
brilliant shades. Sound bulbs of largest size

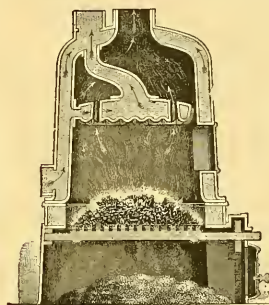
READY TO DELIVER IN DECEMBER OR LATER.

Why be deceived and pay fancy and extravagant prices which are named
on account of the popularity and novelty of this most beautiful flower when you
can purchase the very best and choicest varieties at the following moderate figures:

Singles in White, Pink, Yellow or Rose, 100 \$6; 1000 \$50; 5,000 \$225.
Crimson, Scarlet, Brilliant Red or Mixed, 100 \$5.50; 1000 \$45; 5,000 \$200.
Doubles Mixed, all shades, \$13 per 100; \$120 per 1000.

These bulbs will be planted in immense quantities the coming season, and florists intending
to grow or catalogue, will do well to place orders at once, as prices are liable to advance.

T. H. SPAULDING, ORANGE, N. J.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

**HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.**

Estimates of cost given, and Illustrated Cat-
alogue furnished on application.

The SPENCE HEATER
HOT WATER FOR HEATING
BY **HOT WATER CIRCULATION.**
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

FENCES (Wire, Iron & Steel) **VASES** (Reservoir & Centre Drainage)

Do You Want
CRESTINGS

LAWN ORNAMENTS - CHAIRS, SETTEES &c. &c.
STABLE FIXTURES, WIRE WORK NETTINGS &c.
Send for No. 31 Address: **BARBEE WIRE & IRON WORKS,**
Catalogue **44 & 46 DEARBORN ST. CHICAGO, or La Fayette Ind.**

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,
56 N. 4th St., Philadelphia, Pa.

Please mention the AMERICAN FLORIST every time you write any of the
advertisers on this page.

St. Louis.

Weather pleasant. The lawns in parks, gardens and private grounds are in fine condition. The bedding in the parks is very attractive this season. The beds in Forest Park are especially fine. Forest and Tower Grove parks have fine displays of aquatics.

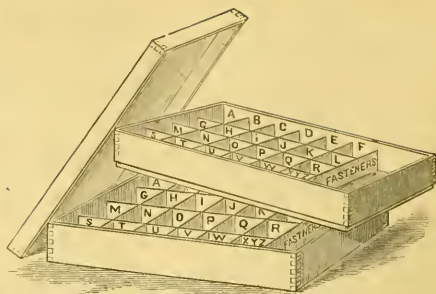
J. C. D.

Nothing to Ask of Congress.

Commenting editorially upon the recent convention of the S. A. F. the Chicago Journal says:

"The last of the great conventions that assembled this year was that of the Society of American Florists, which has been in session at Washington during the past week. Although over 2,000 delegates were present it was harmonious. What seems strange, too, is the circumstance that they did not ask congress to do anything for them. They met at Washington because they could get good accommodations there when the politicians are away, and because they could see the grounds and conservatories of the department of agriculture. During all the time they were there they passed no resolutions declaring that the world was out of joint, and society going to the dogs. Blessed be flower raisers and may their way of running a convention become contagious."

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.



With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

sizes 1 1/4-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

N. F. MCCARTHY, Address 13 Green St.,
Treas. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

Mention American Florist.

AGENTS.

A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
E. Kaufman, Philadelphia, Pa.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendall, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
W. A. Hunt & Co., 1202 Olive Street, St. Louis, Mo.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick, Rochester, N. Y.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

HERE WE ARE AGAIN.



Send us your orders for Sash Bars and Ventilating Sash. All kinds on hand. PROMPT ATTENTION. Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress, from bottom gutter up is my specialty.

Lyman Felheim,
ERIE PA.

YOU CAN SAVE MONEY BY PURCHASING AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.
Mention American Florist.

IMPROVED GLAZING.

Zinc Joints for putting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps across enough glass to pay for the zinc. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction.

Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O.

GOOD, CLEAN SPHAGNUM & MOSS,

\$1.00 PER BARREL.

Or in bulk at \$12.00 per 100 cubic feet.

WM. F. BASSETT & SON, Hammon, N. J.

CATALOGUE PRINTING. ELECTROTYPE.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,

use our FLORISTS' GREEN THREADS.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.

— WRITE FOR SAMPLES AND PRICES. —

CYPRESS GREENHOUSE MATERIAL

HOT BED AND VENTILATING SASH

CLEAR CYPRESS SASH BARS

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

SASH BARS

VENTILATORS, RIDGES, GUTTERING AND LUMBER.

NO WIDE-AWAKE FLORIST need be told it will pay him to use SASH BARS, etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.

MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

THE EVANS CHALLENGE VENTILATING APPARATUS.

— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.



WHEN WRITING FOR ESTIMATES, PLEASE GIVE
FOLLOWING DIMENSIONS:
1st. Give the number of sashes to be lifted.
2nd. Give the length and depth of sashes, (depth
is down the roof.)
3rd. Give the length of house.
4th. Give the height from the ground to the comb
of roof.
5th. Give the thickness and width of rafters or
ash bar.

For Florists, Nurserymen & Seedsmen

GEM STEEL GEM WIND ENGINE GEM STEEL TOWER

The GEM ENGINE, when furnished with
Graphite Bearings, requires no oiling, no climbing
of towers, no lugging or fire-jointed towers,
and practically no attention, yet is more durable
than other Wind Motors that require all this
and more unique in finish. The GEM TOWER
combines beauty, strength, durability, simplicity
to the maximum extent and has no equal. Both
are manufactured and guaranteed by the oldest
and most reliable Wind Mill Company in existence,
and who build the Halladay Standard
Pumping and Geared Wind Mills, the
Standard Vaneless, and U. S. Solid
Wheel Wind Mills, Pumps, Tanks, Horse
Hay Tools, &c. No other company offers equal
improvements. Send for Catalogue and Prices.
U. S. WIND ENGINE & PUMP CO.
RATONIA, ILL., U. S. A.



No More Leaky Sky Lights
Or Slippage and Breaking of Glass in Green
Houses or Farmer's Sash. You can save money
and glass by using the



PATENT GLAZIER Twin Points.

THESE POINTS are far superior to the old
mode of setting glass, as they will hold each pane
in place, preventing the glass from slippage and
causing binding and cracking. Each box contains
500 rights and 500 lefts. We also make a tool for
driving the points. Price, 35c a Box. Driver,
15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware,
Paint, Oil, Seedsmen, and Florist Supply Stores in
the country. If you do not find them, send postal
for a free sample, or send 69 cents for 1 package and
1 driver by mail, post paid to any part of the U. S.
H. W. EAMES CO., Milford, Mass.,
Mention American Florist.

OUR

HALF-TONE *

* ENGRAVINGS

ARE MADE BY

J. MANZ & CO., Engravers,

107 Madison Street, CHICAGO, ILL.

Their work in this Journal speaks for itself
Publishers AMERICAN FLORIST.

You will benefit the AMERICAN FLO-
RIST by mentioning it every time you
write an advertiser in its columns

KILLMRIGHT

REGISTERED

NON POISONOUS INSECTICIDE

DEATH TO INSECTS LIFE TO TREES, PLANTS,
MILDEW FRUIT, FLOWERS.

PRICE 2lb. CAN .50 5lb. \$1.20 10lb. \$2.25 20lb. \$4.00 ~

STOTT DISTRIBUTER

DIAMETER 4" SECTIONAL VIEW LENGTH 30"

INSECTICIDE IS AUTOMATICALLY MIXED.
SAVES TIME AND MONEY.

PRICE IN COPPER 2 CELL \$9.00-3 CELL \$10. 5 CELL \$12.

THE "STOTT" PATENT SPRAYER.

BEST

SPRAY LIKE MIST, NEVER CLOGS, ALWAYS IN ORDER

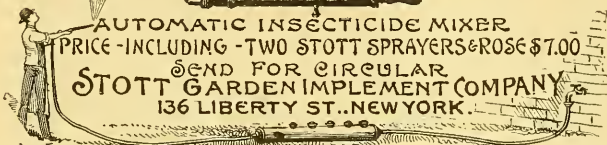
STOTT PAT. SYRINGES.

AUTOMATIC INSECTICIDE MIXER

PRICE INCLUDING TWO STOTT SPRAYERS & ROSE \$7.00

SEND FOR CIRCULAR

STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST. NEW YORK.



SMITH & WEBSTER,

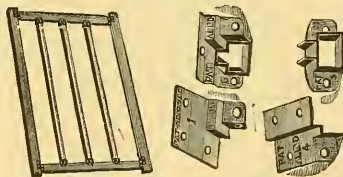
MAKERS OF

GREENHOUSE PIPE,

FOR HOT WATER AND STEAM,

193 Lake Street, CHICAGO, ILL.

Mention American Florist.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.



Pat. 1882, '85, '86,
'88, '90, '91.

SPHINCTER GRIP
SPRING STEEL GALVANIZED

ARMORED

FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose
can be applied.

Sizes, 1/2-inch to 42 inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manufacture
is an infringement on one or more of our
Patents. The rights secured to us render each individual dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,**
Sole Mfr's and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

PERFECT DRAINAGE BENCH TILE.

Awarded HIGHEST PREMIUM

Wherever Exhibited.

Used by ALL leading growers and horticultural builders.

For circulars, etc., address
UPLAND GREENHOUSES.

W. P. WIGHT,

MADISON, N. J.

Buffalo.

The floricultural department of the exposition opened in full on Wednesday, Aug. 17. It occupied one of the large areas of the Main building, having a floor surface of 100x150 feet. At one end was a stage 16x60 feet finely decorated with groups of stove and greenhouse stuff, the front being banked with small foliage and flowering plants punctuated by a few vases and specimen palms. Every available space was well filled and there was a large amount of good material. The Edison Electric Co. supplied the lighting and under the direction of Supt. Cowell some very pretty effects were produced.

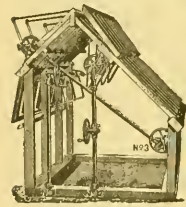
The exhibits of gladiolus and lilies were very creditable. Roses were good considering the season, and some very fair carnations were shown. There were just orchids enough to give the newspaper men a margin to stand on. Altogether the display attracted a great deal of attention, and it seems to be admitted that the floral department was one of the most attractive features of the fair.

Friday, the 19th, the first installment of designs came in and contained some good pieces, though many of them lacked the finish that usually characterizes the work of our florists—the difficulty of obtaining good fresh flowers in time had something to do with this, however. The principal exhibitors were Scott, Rebstock, Milley and S. Pickleman, in plants; and the same, with the addition of Adams & Nolan and D. D. O'Connell, in cut flowers and designs. The amateur classes called out but three competitors, who brought in some very creditable stuff, however, both in plants and cut flowers.

The whole department is under the management of President Cowell, of the Florists' Club, and he seems to be well supported by all our florists. The arrangement of the plants and flowers is being changed more or less every day so that there has been a fresh impression every day. On August 23 the second lot of designs was to be shown, and as the boys would all be back from the convention an immense display was expected. The show will continue through to the 27th inst. J. F. COWELL.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

THE STANDARD Ventilating Machines



Received best awards at

BUFFALO, N. Y.
BOSTON, MASS.
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.



GREEN-HOUSE HEATING.

Meyers & Co.
1173 S. Ninth St.,
PHILADELPHIA.

Send for catalogue and price list.

CARNATION CULTURE; BY L. L. LAMBORN.

Third Edition, containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

MARING, HART & CO., MANUFACTURERS OF Window Glass MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

STANDARD POTS.

Price list for any number.

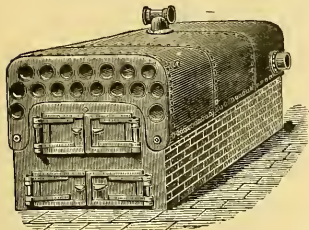
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
2	4	6	8	10	12	14	16	18	20	22	24	26	28																																				

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

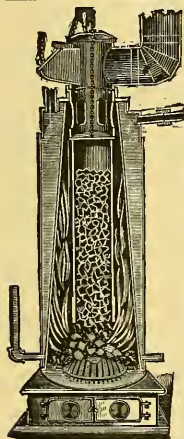
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS,

CHICAGO.**THE WILKS HEATER,**

FOR HEATING

GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured **THE S. WILKS MFG CO.** 133 S. Clinton St.,
CHICAGO, ILL.

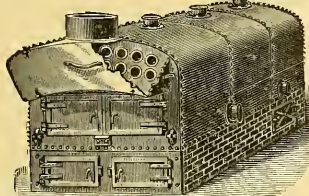
SEND FOR CATALOGUE.

KROESCHELL BROS.

IMPROVED

Greenhouse x Boiler,

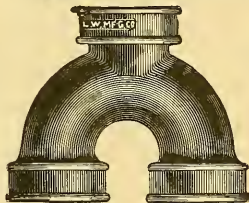
41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, firebox
(front, sides and back). Write for information.Mention THE AMERICAN FLORIST
when writing advertisers on this page.**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

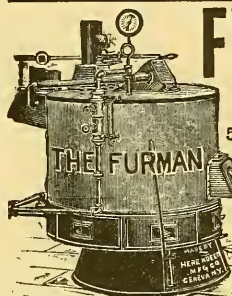
291 Amity Street, FLUSHING, Queens Co., N. Y.

Greenhouse Pipe and FittingsLarge quantities of our Pipe are in use in Green-
houses throughout the West, to any of which we
refer as to its excellent quality.Pipe can be easily put together by any one, very
little instruction being needed.**GET THE BEST!**Hot-Water Heating, in its Economy and Superi-
ority, will repay in a few seasons its cost.

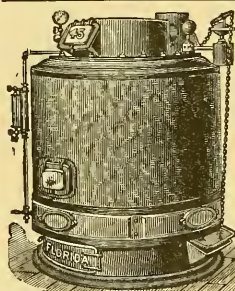
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**FURMAN BOILERS****Economical — Substantial — Safe!**

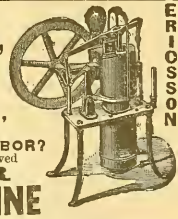
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Stanchness, Durability
and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and
Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.**
Send for new 150-page book giving full particulars and a great
deal of valuable information on modern Heating and Ventilation,
with plans and tables for correct hot-water work. Mailed free.Address **HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.****Save Your Coal****PLANTS and FLOWERS****STEAM and HOT WATER****FLORIDA HEATERS****FOR GREENHOUSES.**

Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water.

THOUSANDS and THOUSANDS in USE.Has a Magazine Feed. Throws out No Gas. Saves 25 per
cent in fuel. Gives a uniform heat day and night. Fully
warranted in every respect and guaranteed to give satisfac-
tion. Reliable Agents in all the leading cities and towns in the
United States. Send for new catalogue. Address**PIERCE, BUTLER & PIERCE MFG. CO**
SYRACUSE, N. Y., U. S. A.**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER
OR
ERICSSON HOT-AIR PUMPING ENGINE

Catalogue with full partic. lars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.**ERICSSON****D. H. ROBERTS,**159 & 161 S. Fifth Ave., **NEW YORK,****NATURAL GAS MADE GLASS**for **ROSE HOUSES, CONSERVATORIES, Etc., Etc.**

Our Glass received the Highest Award at the Boston Convention of the S. A. F.

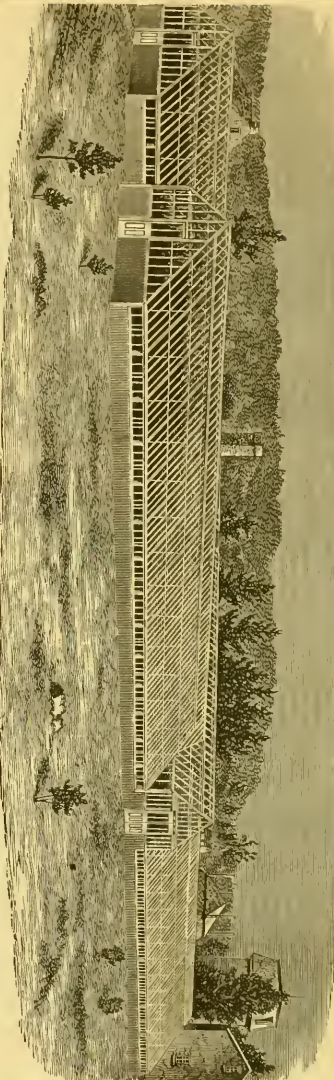
Index to Advertisers.

Abel C C & Co.	100	Lockland Lumber Co.	96
Ady Bates, etc.	88	Long Dan L B.	80
Allan David.	91	Lonsdale Edwin.	101
Andorra Nurseries.	91	McBride Alex.	91
Bailer F A.	101	McCarthy N F & Co.	89
Barbee Wire & Iron	101	McFarland J H.	89
Wks.	101	McFarland J H Co.	89
Barnard W W & Co.	91	McKellar & Sperry.	82
Barnett Wm F & Son.	91	McKinnon A S.	82
Bayswater 11 A Co.	91	Mann J A & Co.	91
Bay State Hdw Co.	101	Maring Hart & Co.	101
Bennard G.	101	Marschall & Co.	101
Benson H H & Co.	91	Meyer John C & Co.	101
Buck Wm A.	87	Michell Plant & Seed Co.	91
Bonfield Walter.	101	Miller Geo W.	101
Bonsell Jos E & Son.	101	Shoffet G J.	101
Boston Letter Co.	101	Moninger Jno C.	101
Bowmanville Pottery.	101	Moore Frank L.	101
Brauer & Richter.	101	Morris & Co.	101
Brotherton W A.	101	National Hot Water	101
Burns & Hayner.	101	Heater Co.	101
Burrow J G.	101	Ouwertkerk P.	101
Curman R W.	101	Peck & Sutherland.	101
Carnaud J D.	101	Pierce & Coleman Co.	101
Chitty H E.	101	Pennock Saml S.	101
De Cock Jules.	101	Phenix Nursery Co.	101
De Lander Iron Wks.	101	Phenix Barber & Pierce.	101
De Smet L.	101	Piereson F R Co.	101
Detroit Heating and	101	Pitcher & Mandl.	101
Lighting Co.	101	Quaker City Mach Wks.	101
Devine's Boiler Wks.	101	Randall A L.	101
Diebel A & Co.	101	Ranox C.	101
Dillon J L.	101	Reck John.	101
Dodge & Conard Co.	101	Roberts J H.	101
Dyer H A.	101	Roche Thos.	101
Eames H W & Co.	101	Rogers Nurseries.	101
Eckhardt Theo.	101	Rolker A & Sons.	101
Elison Wm.	101	Rupp H W Sons.	101
Ellwanger & Barry.	101	Sander & Co.	101
Fellows Lyman.	101	Schmitz F W O & Co.	101
Felds S B.	101	Shultz Jacob.	101
Gardner J & Co.	101	Seallay John A.	101
Gasser J M.	101	Schroder F & Sons.	101
Gibson J C.	101	Sheridan F E.	101
Goetz John B.	101	Sherwood Hall Nur.	101
Gonzalez & Co.	101	Shewchuk & Wasyly.	101
Hall Assn.	101	Situations, wants.	101
Hammond Ben.	101	Smith C A Floral Co.	101
Hart James.	101	Smith Nathan & Son.	101
Hartford & Nichols.	101	Smith & Webster.	101
Herederen Mfg Co.	101	Spanning T H.	101
Herr Albert M.	101	Spencer Wm H.	101
Hews A H & Co.	101	Steffens N.	101
Hilfinger Bros.	101	Storrs & Harrison Co.	101
Hill F A & Co.	101	Stott Garden Imp Co.	101
Hippard E.	101	Stroby S O.	101
Hitchings & Co.	101	Sunderland H.	101
Hosker H M & Co.	101	Taefner Aug.	101
Houat Edw C.	101	Tricker Wm.	101
Hulsebosch Bros.	101	Triebert F.	101
Hunt E H.	101	U S Wind Engine &	101
Hunt M A.	101	Pump Co.	101
Hunter & Purdy.	101	Van Tuleren C G.	101
Illinois Malleable Iron	101	Vaughan J C.	101
Co.	101	Waterbury Rubber Co.	101
Irvine John Co.	101	Weathered Pius W.	101
Jennings E B.	101	Whilldin Pot Co.	101
Joesten C H.	101	Wicht W P F.	101
Kennicut Bros.	101	Wilks & Mfg Co.	101
Kramer I N & Son.	101	Wisconsin Flower Ex.	101
Kremer E H & Son J.	101	Wohl L Mfg Co.	101
Kroesell Bros.	101	Wood Bros.	101
Kuehn C A.	101	Young Bros.	101
La Roche & Stahl.	101	Zirngiebel D.	101

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.



HITCHINGS & CO.

ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING, HORTICULTURAL ARCHITECTURE AND BUILDING.

ALTON, ILL.—Joseph Krug is building a new rose-house. It will be 104x18, with all modern improvements.

HUTCHINSON, KAN.—John Stamm has established a florist's business here, and purposes starting a branch at Great Bend.

CHAMPAGNE, ILL.—F. D. Ferdinansen has leased the plot known as Hedge Park for the purposes of a general greenhouse and nursery business.

DANVILLE, ILL.—The funeral of Grattan Hall, one of the directors of the Maple Hill Floral Co., occurred here August 19, and was largely attended.

LOWELL, MASS.—A Florists' Club has been organized here, with the following officers: President, Richard Griffiths; vice-president, G. W. Patten; secretary, C. L. Marshall; treasurer, Marcellus Patten.

THE GREAT FUEL SAVER
THE CELEBRATED
BOLTON
HOT WATER HEATER.
ITS FIRE HOLDING
QUALITIES UNEQUALLED.
ESPECIALLY ADAPTING IT TO
**GREENHOUSE
HEATING.**

**DETROIT HEATING
AND LIGHTING CO.**
SOLE MFRS.
Leib and Wight Sis., DETROIT, MICH.
NEW YORK, 26 Liberty St.
BOSTON, 42 Pearl St.

Goodell H H
Mass Agri Col 1532

W. Weathered's Sons,
GREENHOUSE . . .
HEATING AND VENTILATING APPARATUS.
HORTICULTURAL BUILDERS.
244 Canal Street, NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.
AMERICAN FLORIST CO., CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel"; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, SEPTEMBER 1, 1892.

No. 222

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; W. R. SMITH, W. Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1890.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. W. B. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Why insects infest plants	101
Pests in the greenhouse	102
Horticultural education	102
William K. Smith (with portrait)	103
Aquatic gardening in Washington	104
Group photo of S. A. F. (illus)	105
Recollections of an old gardener	106
Faints	107
The Columbian Exposition	108
Plant notes	108
Agave Engelmanni (with illus)	108
Washington	108
New York	110
Boston	110
Chicago	111
Philadelphia	112
Buffalo	112
Toronto	112
The seed trade	114
Baltimore	116
Rose propagation in frames	116
News notes	118
Cincinnati	120
Foreign notes	122
A floral clock	122

The Bowling Contest at Washington.

A CORRECTION.

The score of 170 credited to Mr. Coleman of the Boston team, in our report in last issue was an error, as his first score was 117 instead of 170. The third individual prize therefore went to Mr. A. L. Brown of the Philadelphia team, on a score of 169 instead of to Mr. Coleman as reported.

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

GALESBURG, ILL.—A fine new floral hall is to be erected immediately upon the fair grounds.

Why Insects Infest Plants.

By JOHN SAUL.

[Read before the Society of American Florists at Washington.]

The observation and experience of a long life devoted to horticulture leads me to the conclusion that insects never attack plants or trees unless the same have had a check or shock in some way that has impaired or injured their vital power, either from unsuitable or undrained soil, too much or too little water, want of pure air, sunshine, or one or more of the many causes that impair or check vegetable growth. Any one of those happening, insects immediately appear. I believe it is possible to grow plants and crops with such health and vigor that those pests will not put in an appearance. I am aware that some scientists are of a different opinion. When sickness and disease are abroad it is the duty of the physician to combat it, as his greatest duty is to find out its origin, and prevent the organisms, bacteria, or whatever may cause disease, from taking form and spreading. In like manner it is well to destroy those insects that are injuring our crops, plants, trees, etc., but of still greater importance to discover the cause that called them into existence.

Man, when in robust, vigorous health, will not take fevers and other diseases; he must receive a check or something must be wanting before the disease will catch, as in plants. We are told sanitary measures are necessary to avoid disease; these must be cleanliness, pure air and water, and whatever may be necessary or conducive to health, and this is what is precisely requisite in plant life. Though this paper is more particularly intended to apply to plants, I have to step aside occasionally to illustrate what I have to say.

At the meeting of the American Pomological Society, in September, 1891, at Washington, Mr. Latham, of Norfolk, Va., read a paper on the cause of pear blight, in which he took the ground that it was caused by a sudden fall of temperature when the trees are in vigorous growth, say the middle or end of June; a fall of 30° will produce it. Bacteria is not the cause, but the effect; it follows they are the scavengers to clean up decaying vegetation. This is what horticulturists know in many other cases. I walk along one of our streets and observe the trees on its sidewalks are not healthy; if elms, the foliage is gone by midsummer, and if silver maples they are covered with scale, and so of many other trees. Those insects were not the cause of disease, but the trees first received a check, either want of proper soil, insufficient moisture, atmosphere, etc., and as soon as that check took place insects appeared. The same species of trees, or trees growing in the humid, rich valley of our beautiful

stream, Rock Creek, would be pictures of health and vigor. The check was necessary to bring forth insects.

Other Cases—Take for instance roses. If I have a house of roses in perfect health, without a speck of mildew during fall, winter or spring, the atmosphere inside is about 60°, moist and genial, and my roses look happy; outside it is cold and raw. Suppose I open the side ventilators for half an hour, and a cold draught of air passes over the plants. What will be the result? The plants have been chilled, taken a violent cold, and in a short time will be covered with mildew. Mildew follows from the check to plants, a violent cold; any person may try a similar experiment on himself. Again, I have a house of pelargoniums, it is spring, say March or April, they are growing freely, a cold, harsh air prevails out doors, some side air is given; as a result my pelargoniums are chilled, take cold, and by the following day are covered with green fly. Had they been grown nicely on, unchilled, there would be no fly. Take a lot of gardenias, neriums, tabernaemontanas, etc.; it is summer time, and we have them out doors growing freely, clean, free from scale or other insects. When placed in the greenhouse in the autumn into too great a degree of heat, and want of air, they are soon covered with scale, mealy bugs and other insects. Those same plants covered with insects, if planted out doors in May, the insects will disappear and the plants become perfectly clean when they get a suitable atmosphere.

Pineapples in some countries are forced under glass; when the temperature is not suitable, the plants become covered with scale, yet I have known good growers take these scale covered plants, place them among clean, healthy plants in a suitable atmosphere and they speedily, as they say, grow out of it. If I take acubas, which are nearly or quite hardy, and place them in a close, warm, unventilated greenhouse they soon become covered with scale, but when the same plants are removed outdoors in spring the insects soon disappear. If an orchid grower has a look among his orchids and finds an odontoglossum affected by scale he sees at once the plant has too much heat and not sufficient ventilation, but place it in a more even temperature with better ventilation and the plant soon improves; such plants come from the mountains of Central and South America and need a temperate, moist climate. He sees other species such as saccolabiums, phalaenopsis, etc. which are also affected, but from a different cause; they are from the hot jungles of India and need heat and moisture. Under glass in forcing houses plants are infested with insects, invariably caused by too much, or too little heat, want of moisture, bad ventilation, etc. The experienced plant grower can avoid all this. Insects follow, but are not the

cause; this holds good in all the insects that have come under my observation, under glass as well as outdoors.

It is said bacteria can be propagated; of course they can, so can all the diseases of the animal as well as of the vegetable kingdoms.

Plants are never attacked by insects, whether in the greenhouse or outdoors, if in vigorous health, growing in a suitable well drained soil and a climate or artificial atmosphere in perfect harmony with what the particular species requires. If oranges and other fruits are affected with any particular species of insect in California, or any other country, rest assured there is something lacking in that climate (however beautiful it otherwise may be) to that particular species of plant; when the climate is perfectly suited there are no insects. In place of spraying and destroying insects after the life of our trees and plants has been sapped away let us take a lesson from stock breeders, see how careful they are of pedigree, to secure untarnished blood, free from disease, how careful they are that no check or injury shall in any way impair growth or vigor. They know too well that an injured or stunted animal can not be perfect or beautiful when matured. In precisely the same way must the horticulturist proceed, he must start right with his plants and follow the same unerring laws, when he will encounter but few insects.

One of England's greatest naturalists, Chas. Waterton, gave it as his opinion that no tree in perfect health was affected by insects, when diseases appeared why then disease and death.

I am no scientist, but a practical horticulturist, who has observed much in a long life. I have as great a respect for science as any man, being fully alive to what it is doing, not in our particular department, but in its broadest range; still I think there are many things which come under the eye of the cultivator which are unobserved by the scientist in his study. I am full in years, but can well recollect in my younger days before the great Atlantic was traversed by steamers, I think about 1837 or 1838, the practicability of this was much talked and written about. To test this fully a company of merchants in Bristol, England, commenced building a vessel for the purpose; while this was being built one of England's greatest scientists, Dr. Lardner, delivered a lecture in the same city to show the total impracticability of navigating the Atlantic by steam. This he proved to his own satisfaction. Notwithstanding this the hard headed men of Bristol completed their steamer, the Great Western was launched, and the Atlantic was opened to steam.

Pests in the Greenhouse.

INSECTS AND FUNGI.

That anything new can be stated upon this subject is well nigh hopeless to expect; what is not already known of these insidious foes, or is not expatiated upon in scientific literature or popular treatise in detail, cannot well be told. But regarding the treatise and discussion upon "insect pests" in the late convention of the S. A. F., a few lines may not be amiss in the great trade journal of the craft, the AMERICAN FLORIST.

Insects are one thing, fungus another. The progenitor of the first is visible, the other to the naked eye invisible; the cause of either is entirely different. The one is animal pure and simple, the other

a vegetable organism; each exists without aid from or reference to the other. In some instances, however, the destructive effects are similar; hence the not infrequent lack of accurate distinction. Mycologists name a multitude of varieties of fungi, even the same species forming upon different plants being in manner variable. These parasites, destroying those plants or portion of plants on which they feed, are of microscopic origin. The seeds or spores of fungi may subsist upon an inferior plant until in the fullness of time lodgment is made upon valuable, cultivated plants. In cultivation man masses his plants; hence, as in the greenhouse where conditions are artificial and are so maintained for considerable periods of time, fungi, when once started, find all things favorable for rapid spread. When fungus in any form attacks a plant and is allowed to retain its hold, it saps the life, the nourishment is impaired and development or growth is checked, the plant loses its freshness and bloom, the leaves wilt, drop and perish. Again, excrescences will form on branches and twigs, nodules will grow on roots, and the damage will frequently equal, if not exceed, that done by insects, yet the beginning is less defined and more subtle. In all troubles prevention is acknowledged to be better than cure. Fungoid difficulties are generic; therefore, in combating them, the power of exact diagnosis is well worth cultivating and acquiring by research and study. Spores may be floating, dormant, or lodged, awaiting suitable time and place for development. Where, however, attack falls, loss of vigor ensues, but not because of failing vigor do the many insects prey, not because a plant or body of plants have arrived at an early maturity and then begin to fail do insects find lodgment. Insects come neither from floating spores or bacterian matter, nor from consequent disease. The plague of insects is not the effect of either; only in well defined tribes are they nature's scavengers. Among animate creation no class of animals is so varied or numerous. Aphides come nearer to spontaneity of production than any other insects, perhaps, for they at times fairly spawn, and those conditions of heat and moisture favorable to mildew are likewise such as these small insects thrive in. When green fly appears upon a bench of roses or black fly on chrysanthemums, it is not on the old wood, dying or wilted leaves, but on the new, fresh and vigorous growth these pests suck away the vitality.

The invariable instinct of the mature insect leads her to deposit her eggs where the larvæ can readily find suitable food. A length of time may elapse before the larvæ appear, because, as with the eggs of the crocodile or alligator, suitable atmospheric conditions must exist before embryonic life comes forth. Thus it may often be that when greenhouse plants, forced to the utmost by the application of favorable means of growth, begin to show signs of waning vitality that these same means which have produced this early maturity has at the same time been the requisite to bring forth a crop of insect larvæ, for truly good growing weather is always good insect producing weather, and generally vice versa. A given plant may thrive in a comparatively cool place, as for instance on the floor of a greenhouse, this being similar to its indigenous abode; place it where it is high and dry, and you place the plant in an atmosphere that does not suit its requirements; but in that high and dry strata is where the minute arachnid

will live and thrive. The plant is food; the red spider quickly discovers it and takes possession for its young, but no willing of the plant causes the attack, simply this, the plant was put into the particular region where red spiders thrived, where they did well and the plant did badly. The natural location where the plant did well the red spider could not endure, so kept away from regions so uncongenial. Will larvæ that hatch and develop in the soil seek dried, dead roots, or the tenderest, most succulent of the feeding roots? So far as can be seen, the best is what is sought. Accurate knowledge in the various fields of horticultural science is not gained or picked up without care and study, but the industrious possessor of this carefully obtained information, if practically applied in contending against his foes in the greenhouse, is indeed in possession of a stepping-stone which leads to the throne of success in his calling, but the price of success is eternal vigilance.

BENJAMIN HAMMOND.

Horticultural Education.

It would no doubt be interesting to many of your readers to know from what geological stratum your correspondent "Pessimist" has been exhumed. His letter and the address of the president at the S. A. F. convention appearing in the same issue of the FLORIST—two such totally opposite compositions—seems to be a remarkable coincidence; the former might have been written by some antediluvian inhabitant of the earth, the latter is full of progress and "git thar,"

What does "Pessimist" want florists to do? Sit down and look at other trades go ahead as they used to do in the good old days one reads about?

He says "this business is not suffering from want of educated help," but is it not improving because the help is getting more and more educated all the time? And will it not continue to improve the more the help is educated? Lawyers, doctors, parsons, druggists and a dozen other trades and professions have their colleges and special teaching, why not gardeners and florists, whose profession takes more learning than any of them? In fact it is never learnt.

It seems to me that the trouble is entirely the contrary to what "Pessimist" tries to make out. There are altogether too many men who call themselves gardeners and florists who are not half or a quarter educated in their profession and who consequently often make it a "stink in the nostrils" of those who employ them or have business with them. No profession can be learnt properly without going through with a lot of drudgery to begin with, and this is what so many try to escape; they want to get to the top of the ladder without climbing up step by step.

"Pessimist's" talk about the degrading position graduates of a horticultural college would occupy in the industrial world is positively foolery. Of course any college that gave only a theoretical teaching and turned out a lot of duds would be worse than nothing, but surely that could not be called "a broad education in horticulture and floriculture." Any teaching to do any good must be practical and the students must not be afraid of soiling their hands. Could not this be done at Palo Alto? Why should not a Californian university start a horticultural department? This I take it has nothing to do with the national college advocated by President Dean,



WILLIAM R. SMITH.

PRESIDENT-ELECT OF THE SOCIETY OF AMERICAN FLORISTS

which I am sure no one would dream of locating in California.

There is no doubt but that florists as a crowd have been and are to a large extent at the present time the worst lot of business men under the sun, and that the best practical gardeners and florists are those who have served their apprenticeship at some good establishment, but why should not the two be combined so that young men may be turned out good gardeners and florists and good business men too? With the right man at the head I see no reason why this could not be done by a college as suggested by President Dean.

A. H. EWING.

Toronto, August 25, 1892.

"Pessimist" in your issue of August 18 seems to be quite alarmed at the prospects of overeducation in young men aspiring to an horticultural profession. I think his fears are groundless as far as the Leland Stanford University is concerned, especially if Prof. Smith, who has charge of that department, pursues the same course that the Regents have adopted in the other branches of learning for which the university is open. A very severe examination is required before a candidate is admitted, he must in fact have been at college or one of the highest schools to be able to gain the necessary marks for admission. "Pessimist" will find that to gain admittance to the horticultural department of Leland Stanford University will surely try some of our best horticulturists, for scarcely any of the rank and file will have any chance. He says: "Has one (meaning horticultural institutions) produced a noted gar-

denet?" I say yes. Kew, England, has sent out a great many worthy pupils and very noted gardeners.

Emily Louise Taplin and many other writers have wielded their pens to advocate a higher education for gardeners and florists. The late Peter Henderson mentions the difficulty of obtaining a thorough practical foreman, and President James Dean in his able address before the florists in convention at Washington advocates very strongly a scientific and training college, so that employers can obtain better help. "Pessimist" says the florist business is not suffering from want of educated help. I am afraid he is not sufficiently posted. I fear, as one writer hints, that when the old school of florists and gardeners has died out there will not be men with the requisite ability to take their place, and it behooves employers to foster every means in their power to add to the standard of higher education of all aspiring to follow the noble profession of horticulture. Books are plentiful, yet they sometimes mislead. Two vital courses are yet to be tried, viz.: good colleges or schools where a practical course can be gone through and a higher standard of wages for those with ability. The wages are of vital importance, as by that means it will induce the would-be florist and gardener to use every means he can to make himself proficient in his profession. As it is these employers who pay good wages can not often find good practical men, but employers can not be blind to the fact that the general low wages paid is dragging the employe slowly but surely down to a point from which it will take years for him to regain

his former prosperity. Private places are alike suffering for skilled help. I can point to several places near here whose ill paid help are through ignorance causing their employer hundreds of dollars loss, and so it is going on in every state. Men go to gardening when other work is not to be had, all are florists and gardeners. Jack at all trades, master of none, and so the thing goes on year after year. Men only work for the wages they get, which are too small to induce them to seek a higher horticultural education.

Villa Nova, Pa. GEO. M. STRATTON.

Your correspondent is a pessimist I think. The greater number of notable gardeners have, I believe, had the advantage of some such education as is proposed at the Stanford University. Certainly Paxton, Warnock, Robinson, Nicholson, Meehan, Falconer, Jackson Dawson, Taylor and an indefinitely long list of others all over the world, have at some period of their career had their minds expanded and rendered more inceptive by the material gathered together in some school of horticulture, such as Kew, Regents Park, Chiswick, Cambridge, etc.

These men, if given a fair environment and opportunity for the display of their acquired genius, are sure to make their mark.

It is of course unfortunate if they meet the kind of employers alluded to by "Pessimist"—and the chances are said to be "a dozen to one" that they will do so in this country. If it be a fact that the preponderance is so great of employers who lack "in judgement, intelligence and above all in practical knowledge of the business," what is the remedy for the next generation? A broader education or the putting "in one year as a helper" in some "degrading position" with a florist in the "northern states"?

The truth is that neither one nor both will render the man "broad" in his "education" in horticulture and floriculture, but Palo Alto and something similar in every state will help. As the president of the florists society points out in his Washington address, "we need a college" "to remedy failings," not in nine states, but in every state, as I had the honor to suggest in the *Country Gentleman* as long ago as 1877. I am delighted to know that the agricultural department has taken up the idea, and I trust it may expand on practical lines. The opportunity such colleges present is just what the 11 men out of 12 need, an opportunity to expand their minds; then it is certain that with an even show they will be able to drive out the men who are racking their brains to make both ends meet. Success is apt to drive away pessimism and the college is a good preparation, if conducted as it ought to be.

Trenton, N. J. JAMES MACPHERSON.

William R. Smith.

We present in this issue an excellent portrait of President-elect William R. Smith of the S. A. F.

Mr. Smith was born in Scotland in 1828 and served as an apprentice at Lord Elcho's. He then served as journeyman and foreman for three years in famous gardens of sundry noblemen, serving one year in each place. He was then admitted to Kew, where he served the usual two years. While there he met Prof. Asa Gray and formed a friendship with that grandest of botanists which lasted until the professor's death.

Coming to this country he landed in

Philadelphia, served for a few weeks at Mr. Dundas', then a famous place, and was then sent by Mr. Robert Buist to a swamp in the city of Washington with three small greenhouses, which was there and had been called the Botanic Garden, on the map only. It contained the rare plants collected by the Wilkes exploring expedition, but that was about all, and it was certainly in a very crude condition. Mr. W. D. Breckenkridge then had it in charge. The death of Mr. Downing promoted Mr. Breckenkridge to the position of landscape gardener of the public grounds. Mr. Smith was placed in charge of the greenhouse under Mr. Breckenkridge for the first year. Mr. Breckenkridge, who still lives, had been around the world with Capt. Wilkes and had collected many rare and valuable plants. He is the author of a valuable book on ferns.

The following year a special appropriation was made for the garden, and Mr. Smith was appointed its superintendent in 1854, which position he has held ever since. The growth of the Botanic Garden, its importance to the country in furnishing rare trees and plants to every section, in determining by practical experiment the species most suited to different climates, and in making known those that are most desirable for shade trees in the cities, are strong testimonials to his industry and devotion to his work.

Group Photograph of the S. A. F.

We present in this issue a reproduction of the group photograph of the S. A. F. taken in the Botanic Garden at Washington.

The group, containing between 700 and 800 people, was arranged between the famous Bartholdi fountain and a point 100 feet directly west. The large central figure of the fountain is a beautiful moulded circular water shed, crowned by three water nymphs and supported on the uplifted arms of the three heroic figures representing the three races. Back of this again ranges an irregular row of grand trees, and towering above all these is a most striking reproduction of the Capitol of the United States. We may safely say that the Capitol Building, the most magnificent structure in the world, has never been displayed to better advantage on cardboard and it would be impossible to conceive nobler surroundings as a setting for a group picture of the members of the S. A. F.

The size of the picture is 20x26 inches. There were two exposures made, one in the sun, the other in the shade. The latter shows every face in a surprisingly distinct manner, with the single exception of Mr. John Thorpe, who moved during the exposure.

Copies of the photograph will be expressed to those wishing them, on receipt of \$1.50, by applying to C. Leslie Reynolds, U. S. Botanic Garden, Washington, D. C.

Aquatic Gardening in Washington.

Within the past year or two the taste for aquatic plants has developed wonderfully, particularly so with those in charge of government greenhouses and fountains. At the Botanic Garden four years ago Supt. Smith purchased a few *Nymphaeas*, had them planted in tubs and placed in the small fountain south of the large conservatory; they grew rapidly, and produced a quantity of flowers, attracting the attention of every one visit-

ing the gardens. The following year a few more varieties were purchased by Mr. S.; they were planted in boxes and placed in large tubs of water. The tubs used were made out of large wine casks sawed in half; these were arranged on either side of the walk leading from the conservatory to the small fountain, where the larger varieties were growing. This proved a very attractive part of the garden, and it was determined the following year to try them in the large Bartholdi Fountain, the basin of which contains more water than all the other fountain basins in the city put together. It is 140 feet in diameter and 5 feet 6 inches to coping, affording a grand opportunity for a handsome water lily display. Last year a plant of the famous *Victoria* regia was grown in this basin, the leaves of which covered a space of 47 feet across, the largest leaf measuring 7 feet 6 inches in diameter, and easily holding a child weighing 80 pounds. This was the first attempt at growing the *Victoria* in water not artificially heated. This plant produced 16 very large flowers, and if warm weather had continued for a week or two longer in the fall it would have ripened its seed. The seed was sown January 27, germinating March 10, and was planted out in the fountain June 1 in a box 8 feet square, 3 feet deep, the box being placed upon stones so that the surface of soil in box was about 18 inches under water.

This year four *Victorias* are planted in the large fountain, two *regia* and two of its variety *Randii*; they are at present every bit as promising as the plant grown last season, though they suffered considerably recently during a severe wind storm accompanied by hail. The largest leaf on the *regia* is 4 feet 9 inches in diameter. Besides these there are 64 large plants of water lilies in this basin, representing nearly every species and variety in cultivation; they are planted in boxes and tubs made out of whiskey barrels. To bring them to a proper height they are placed on other boxes or tubs, which are weighted down with stones. They are all in fine condition and are flowering nicely. From the beginning of July to the middle of October this feature of the garden attracts great attention, especially in the evening when the big lily comes into bloom and the surrounding grounds are beautifully lit up by electricity. 12 lamp posts on the coping around the fountain, each having three burners with red, white and blue globes or shades producing a fine effect. The flower of the *Victoria* opens the first evening about 8 o'clock, closing at 11 the following day; on the afternoon of the same day it opens for the last time about 4 o'clock, changing color from white to a blue red. The daily city papers published a highly colored account of this marvelous plant and its magnificent flowers, arousing the curiosity of the entire country. So great was the crowd the following day after the departments closed that when the hour came for locking the gates the crowd besought Mr. Smith to open the grounds until 10 o'clock in the evening. The requests were so numerous that he could not refuse, so he ordered the gates opened and the fountain lamp lighted. It is safe to say that at least 10,000 people came to see the *Victoria* the two nights the garden was opened.

Of those grown in the Bartholdi basin with the *Victoria* among the best varieties of the night flowering are *Nymphaea Devonensis*, said to be a garden hybrid; there are at least two forms of this, a light and a dark, both are very pretty and are worthy of a place in every collec-

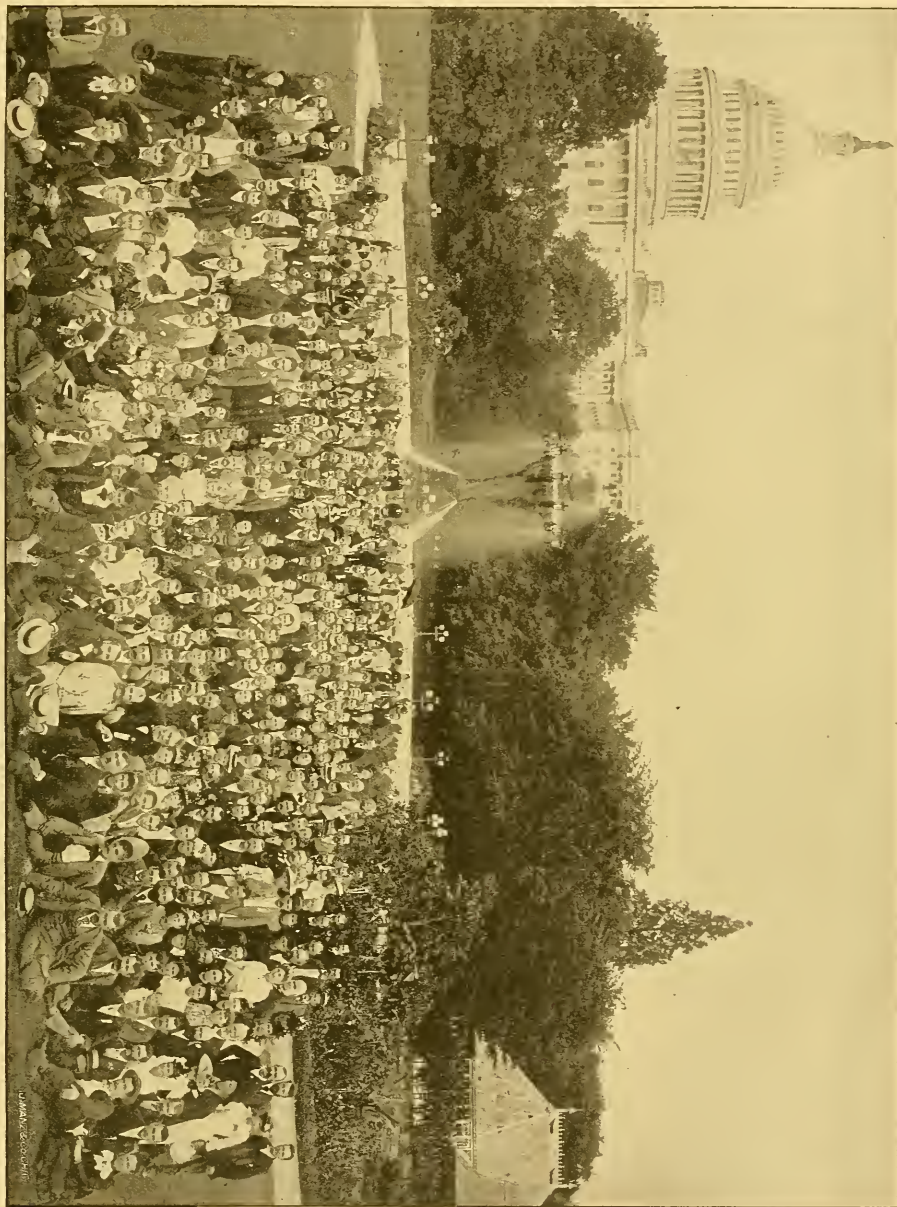
tion; *N. rubra*, a very rampant grower and a good bloomer, this and *N. dentata* (white) produced flowers last year 14½ inches in diameter. *N. Sturtevantii* (figured in the *Florist* last fall) and said to be a sport of *Devonensis*, is one of the largest flowered, a deep bright rose color; however, it does not bloom so freely as the other varieties. All of the above are exotics of the day flowering. The *Zanzibar* varieties have light blue, dark purple and rose colored flowers, they are exotics. Of the hardy varieties they have pink, red, blue, yellow and white flowering sorts.

This season the small fountain south of the main conservatory is used exclusively for the botanical collections of hardy *Nymphaeas*, several species in this basin seldom being met with outside of botanical collections. The yellow variety of *N. pygmaea* flowered with us for the first time this season; it seems much more floriferous and larger than the type. Our success with this beautiful and interesting class of plants was such that Mr. Geo. H. Brown, Public Gardener, in charge of the public parks and grounds, could not refrain from trying them in the many fountains under his charge; the following are the locations of the principal fountains in the city reservations under Mr. Brown. One in Judiciary Square, Iowa Circle, Lincoln Park, Reservation in front of National Theater, Washington Circle, Franklin Square and Reservation in front of Providence Hospital. The above are all devoted to aquatics and fish, the latter in days gone by held full sway.

The red varieties grown in the fountains in the parks are *N. Devonensis*, *odorata rosea*, *rubra* and *Sturtevantii*. White varieties: *N. dentata*, *N. alba odorata*, *Marliacea* variety *alba*, *Canadense* and *tuberosa*. Blues: *Cerulea*, *azurea*, *Zanzibarensis*, *N. scutifolia* and *N. gigantea*; all excellent varieties and do admirably here. *Scutifolia* is the only one hardy among them, the others have to be taken in for the winter, and this is the chief drawback to success. Some of the exotics require warm winter quarters and should have more attention and room, when Mr. Brown is compelled to use all the available space to get room for the enormous quantity of soft bedding plants which he is required to propagate for the parks and reservations. Nevertheless he makes a very creditable display, adding much to the attractiveness of the parks containing fountains.

Mr. Pfister, head gardener at the Executive Mansion, has been growing aquatics for several years past. The large fountain in the lawn south of the Executive Mansion, between it and the Washington Monument, contains permanent hardy kinds, chiefly *N. alba*, *N. candidissima* and *Marliacea chromatella*. The last named variety has completely taken the place of *flava* the Florida yellow; it does grandly and flowers abundantly, the flowers being large as *alba* and *candidissima*. Among these are planted a few of the exotic species, chiefly the red varieties. The north fountain, between the Executive Mansion and Pennsylvania avenue, contains various rare kinds of exotic lilies, which are kept in pots, watched and grown on for planting out the following year. The east fountain, between the White House and Treasury building, contains the following: *Papyrus antiquorum*, *Myriophyllum proserpinacoides* (parrot's feather), *Pontederia azurea* and *P. crassipes*, *Limnanthemum Humboldtii* and *Limnanthemum Plumieri* (water poppy), and four varieties of *nelumbium*, yellow, white and red. Among them is a fine plant of the new *Nymphaea*

THE GROUP PHOTOGRAPH OF THE S. A. F. TAKEN AT WASHINGTON



Marliacea rosea which seems to do better than the Cape Cod varieties in this latitude. This is really a beautiful addition to the collection, and it shows every sign of being an abundant flowerer; we shall watch it very closely. These are all tender exotic varieties and require to be taken in as soon as the cool nights set in. I might safely say that almost the entire stock of water lilies used in the city for decorating

the parks were obtained from the Botanic Garden. The stores and market stalls are always well supplied with the various colored species and varieties. These are grown principally in extensive water lily gardens along the shores of the eastern branch of the Potomac, also in Prince George County, Maryland. At the former place a large surface which formerly was covered by

high tides has been dammed in, the water used being supplied by springs, the soil at the bottom being made very rich. In these places nymphæas grow luxuriantly. These are the property of Mr. W. B. Shaw, a gentleman who takes a deep interest in aquatics, and from a few grown for his own amusement has sprung quite a farm devoted to the cultivation of this class of plants, from

which he realizes a fair income. Mr. Shaw finds that two weeds trouble him greatly in these ponds, the Cabomba *viridifolia* and a species of nuphar.

C. LESLIE KEYNOLDS.

Recollections of an Old Gardener.

(Read before the New York Florists' Club by Samuel Henshaw, West Brighton, Staten Island.)

In these days of intense competition in the different branches of horticulture there is a tendency to lose sight of the changes that have taken place within the last fifty years. The men are fast leaving us who have done so much to bring about the prosperous and eminently respectable position occupied by the different members of the profession to-day. Amongst some of the recent be-
reavements in our immediate circle, of men whose places it would be impossible to fill I might mention Peter Henderson, John Henderson, William Bennett, James Taplin, Charles Anderson, James Y. Murkland, Dr. George Thurber, Charles Downing, Charles Ross, William Chorlton, and many others, some of whom could have treated this subject much better than I am able to do. It is impossible in this short essay to do more than glance at a few of the changes that have come under my own observation. It would take a series of papers to do full justice to this subject and say all that I would like to say about it. When I was young it would be impossible to find a florist who would stock a place with plants for the sake of producing cut flowers. Florists and nurserymen at that time grew a general assortment mostly sold as pot plants. If only flowers were wanted, as much would be charged for the flowers on the plants as if the whole plant was bought. I have seen one dollar asked for one bloom on a young camellia, and when the customer asked how much would be charged for the plant, both plant and flower could be had for the same money. When a florist got an order for cut flowers or any decorations, he usually had to depend upon the surplus that could be bought from a private grower, or any of his friends in the business who would be willing to accommodate him, expecting to receive the same in return at some future time. All the flowers at that time were made up by gardeners. The late John Henderson was the first florist in the neighborhood of New York who made a business of growing cut flowers for market, and he was laughed at for doing so by his friends, who told him he would make a failure of it.

There were no establishments devoted wholly to the growing of roses, orchids, palms, etc., as we see them to-day. The present state of perfection to be seen in the cut blooms of roses and other flowers is due in a great measure to some of our best men making specialties of their favorites, and by devoting the whole of their immense establishments to the growing of one or two kinds of plants they are bound to come out ahead of the man who grows a miscellaneous lot of cut flowers. And this running into specialties is making our bright young men push their way into these places for a year or two, after learning the general routine of plant growing, just to see how the thing is done, knowing full well that their services will be in demand in the near future elsewhere, or to go into business on their own account. And just here I might say that the young men of to-day have a great advantage over the

youth that went apprentice to gardening fifty years ago. At that time there were no such things as florists' clubs, free libraries, periodicals such as the *AMERICAN FLORIST*, and cheap literature devoted solely to horticulture and kindred topics, full of articles written by men who are enthusiasts in the cultivation of some particular plant, and who give their unreserved experience in its growth, habits, and other points in its culture likely to be overlooked by a novice. A young man going into one of these establishments to-day is not put to the same menial work and drudgery that was common to all apprentices when I was a boy; they are not kept at the foot of the ladder so long. We hear of no such thing as an apprentice for seven years; the young man of to-day expects long before that time expires either to marry the proprietor's daughter, and so become a partner, or to be running a place of his own just to show the public what an old foggy his late employer was in his antiquated method of doing things.

We were expected to take a much longer time to learn all about the profession when I was young. Although my father was a gardener, he did all he could to persuade me not to be one; but it was of no avail; a gardener I would be. When he found I was bent on it, he took me into the garden and started me at the foot of the ladder, and, during working hours, showed me no more favors than the rest of the apprentices. One of the first jobs a boy was expected to learn was weeding; all the kitchen garden crops were sown broadcast in beds four feet wide, with one foot alleys between; no crops were sown in drills, consequently the hoe could not be used except in the alleys. This hand-weeding was a tedious, back-aching job, and a boy very soon learned all he wanted to know of that branch of the profession. On wet days there was another job always staring him in the face, and that was washing empty pots. After we were proficient in washing empty ones we were taken into the conservatory to wash full ones, "by way of a treat;" this meant scrubbing off all the green from the outside, and for an inch inside the rim. This pot washing, weeding and scrubbing was kept up week after week with very little variation, in fact so long that we thought there was nothing more to be learned in that line. Another wet day job was making labels and flower sticks. Some of the boys got to be very proficient in this work, and took a great deal of pride in it. When a label was used, one side was painted with a dab of white lead, put on with the end of the finger; but if for conservatory use, they were painted all over, tied in bundles and stored away until wanted. Flower sticks for geraniums, calceolarias, cinerarias, and other dwarf plants, were made of split laths, shaved to the right thickness with a pocket-knife and painted green. When a boy got old enough to join in the general run of work it did not take him long to think that he knew something, and he began to look down on the poor laborers who had been at the same work for a life-time and often knew more about it than the apprentice ever learned; still, they were only laborers, and, we thought, had no hope of ever being anything else.

Garden tools at that time were heavy and clumsy, and were hard on the boys. All the lawns were cut with the old-fashioned scythe, fitted with a handle cut from the limb of a tree. Spades, forks, rakes and hoes were made of iron

tipped with steel. Wheelbarrows were as heavy as a cart, and contained enough wood and iron to make two. Many of the tools in common use now had not been invented. There were no lawn mowers; all the apprentices were given particular instructions in mowing short grass and how to whet a scythe. In fact, so important was this in a journeyman gardener that one of the first questions asked him when applying for a job was, "Can you mow short grass and whet your own scythe?" In cutting the lawns the mornings were taken advantage of when there had been a heavy dew, as the grass cut easier. The young men were expected to turn out early on that account. We have often seen the poor laborers coming to work across the park when we had been at it for an hour or two. We were also taught that the plants were injured if watered when the sun was shining; consequently during a dry spell we saw these same poor laborers going home at six o'clock, while we were kept to work until dark. When we got older we often thought this was a mean swindle out of our time and money, and I made up my mind that when I got to be a boss all extra labor should be paid for, either in time or money. When lawn mowers came into use we thought there were easier times in store for us, but we were mistaken. Horses were not used for a long time, as it was thought the foot-marks would show. Often two boys were put in front of the mower, and a man holding the shafts. We often thought we pulled both the man and the mower. It was hard work with the old-fashioned shanks mower. The foreman in one of the large estates was a man of considerable importance, and it was in his power to make it very unpleasant for the young men in the botchy if he took a dislike to anyone. It was his duty to lay out the work for the day, and I have known him set us to work nailing in wall trees when the day was so cold and the branches so coated with ice that we could not tell whether we hit the nails or our fingers. He would pick out the brightest day for pruning succession pine apples, no shade to the houses, and the temperature over 100°, making us roll up our shirt-sleeves so as not to catch in the leaves, until our bare arms would be bleeding from the spines along the plants. Life in a botchy was not always as monotonous as some writers would make believe; it meant several young apprentices living in a cottage, or lean-to, in the rear of the greenhouses, leading a very free and easy life after working hours. At that time there were very few, even on the large estates, that provided a woman to cook and care for the rooms; consequently the young men had to do it in turns of a week each. In most places vegetables were allowed in the botchy. Some of the young men were born cooks and could make an appetizing meal out of very little. The best dishes did not come from the butcher's or any other store. We always made a point of making friends with the gamekeeper by supplying his wife and daughters with bouquets and other tidbits in our line; in return we would get a good, fat hare, pheasant or other game. If he was a longer time than usual in paying us a visit, the champion shot of the botchy was sent out with an air gun to replenish the larder. If caught by the gamekeeper we always managed to pacify him with a little present to take home. Another plan by which a supply was kept up, was a rule we made for the last one to turn in at night to leave the garden

door open (all the gardens where crops were grown were protected by a brick wall) and the first one up in the morning to shut it. The usual result would be a hare, or maybe a rabbit or two, but it would never do to leave any evidence laying around to show that we were living too high. A young Scotch lad learned us a wrinkle or two in cooking hares and pheasants, etc., and that was to roll them in wet clay, rake a lot of hot ashes under the greenhouse fires and bury them in it until cooked. In this way all the fur and feathers came off in a lump, all the juice was in the meat and was sweeter than any Delmonico dish I have ever tasted. Suet dumpling was a favorite dessert, being easy to make, but sometimes the boys cooked it so hard that we could have made a football of them all around the garden without bursting, but they were eaten all the same, and no fear of having dyspepsia. A common amusement, and one that tested our knowledge of the different varieties of plants, was to see which could name the greatest number correctly without looking at the labels; often a penny or two would be staked on the result, but after all it led to an intimate acquaintance and made us see at a glance the individuality of the various plants.

The position of head gardener on one of those grand old European estates was looked upon as something superior to the general run of occupations. A substantial fee was often given when a boy was put apprentice under one of them to learn the profession, there was no appeal from his decision on anything belonging to the garden; even his Lordship approached him with a great deal of deference and respect, for to a great extent their standing with the neighboring gentry depended in a great measure on the tact, energy and ability of the manager of their estate. The hall gardens were the show cards for the surrounding neighborhood, and as a rule the public were allowed to visit them, and picnic parties were arranged for miles around as a trip to the park and gardens. When we consider that 50 years ago very few of the greenhouses, even on large places, were heated by hot water, nearly all the forcing was done either by flue heat or fermented manure, these old gardeners succeeded in producing remarkable results. I have known some of these men who could have cut a ripe pineapple, a bunch of grapes, a cucumber and a dish of mushrooms any day in the year. Peaches, apricots and nectarines were grown, both forced in glass houses and in the open air, trained along walls heated with flues. Asparagus, sea kale, rhubarb etc. were forced in pits and frames heated with manure. Cold frames were largely used and were very useful in keeping the conservatory gay; I have often seen calceolarias, cinerarias, primulas, cricas, epacris and other plants taken to the conservatory in full bloom that had never smelled fire heat; of course there was lots of covering required in severe weather, but there was less of insect life on plants grown in frames. Socially, these old time gardeners were rather conservative, but if a kindred spirit visited them they were extended all the courtesies possible to make them feel at home; there was an exchange of snuff boxes as a preliminary, a mug of home brewed ale and the trimmings put on the table, and if the visitor happened to be a gardener a general interchange of ideas would follow. The garden and greenhouses would be visited, the last addition to the list of plants commented on, and one thing that was never overlooked by an old gardener was the

coloring of grapes, for, no matter what the size of the bunches or berries, if they were wanting in color it was looked upon as an unpardonable fault. Conservatories were kept gay all the year round with collections of pelargoniums, fuchsias, calceolarias, cricas and mixed hard wooded and soft wooded plants in flower. Orchids had not become fashionable; if any were in bloom they were staged among the other plants and looked upon as curiosities. Herbaceous borders were to be found in all the old gardens and were well taken care of, flowers could be cut from them nearly all the year. If anything was planted in them that was new or rare it had a numbered label all to itself, and its habit and general behavior watched with as much enthusiasm as the new orchid to-day, but the seedling tulips required most patience, for it took them seven years to attain their full color, and when one developed some unusual tint or a new form it was looked upon with a good deal of envy by rival growers.

Among many of the old time gardeners whom I have known and who have done so much in improving many of the well known plants of to-day are Donald Beaton, the first to make any decided improvement in bedding geraniums; James Greive, the raiser of Mrs. Pollock and other tricolor geraniums; James Robinson, who did so much to introduce and improve the verberna; George Glenn, who made the balsam and other old time flowers so popular; Dominy, the first man to hybridize orchids and pitcher plants; Thomas Rivers, the man who made a success of growing all fruits in tubs and pots; Charles Turner, who took first prizes everywhere with roses in pots; Sir Joseph Paxton, gardener to the Duke of Devonshire, Chatsworth, and designer of the first exhibition, 1851; Dr. Lindley, editor of the *Gardeners' Chronicle*, who was always ready to give due credit to the raiser, and introducer of anything of merit; the two brothers Thompson, celebrated everywhere for their skill as grape growers and all round plantmen; and more recently I might mention B. S. Williams, James Veitch, William Ball, W. Cole, Shirley Hibbard, E. Dombroin, Bruce Findlay, of the Manchester Botanical Gardens, who has organized some of the best exhibitions in England, and many other shining lights too numerous to mention in this short article. When we think that most of the successful men in our business to-day have been recruited from the ranks and have climbed from the bottom of the ladder to positions equal to that in any other profession may we not give due credit to the discipline and habits of industry taught by these men, and may we not reasonably expect from the present growing taste and love of the beautiful there will be greater strides made in our profession during the next 50 years than there has been in the last 50?

Palms.

A well grown palm is a beautiful plant, and a collection of them, each one handsomer if possible than the other, is a sight well worth seeing.

Mr. C. D. Ball, of Holmesburg, Phila., has just such a collection, and in addition one of the neatest and cleanest establishments to be found anywhere; his is certainly a model palm farm. A recent visit found him up to his elbows, hard at it, but glad of a chance to show his visitors about.

Livistona Chinensis, syn. *Latania Borbonica*, is to be seen here in perfection; one large house is entirely filled with plants in 6 to 8-inch pots; they are in perfect health, not a dead end to be found on a leaf anywhere.

"You see," said he, knocking one out, "the pots are becoming filled with roots, after which the plants make their next growth."

"What shading do you use?"

"I like whitewash; it looks rough but it is the coolest. It has to be put on about three or four times a season, but still I prefer it to any other shading I have tried."

"*Latantias* sell very well with me except in New York; they don't seem to like them there for some reason or other, the principal demand being for the more graceful kinds, such as *arecas*, *kentias*, *phoenix* and the like."

The *Areca luteus* house (or houses, for there are several of them) filled with plants in all stages from seedlings to specimens, are pictures of health and beauty. We doubt if there is another lot like them in the country.

"The *areca*," said Mr. Ball, "is undoubtedly the best selling and most popular palm, with the *latania* a good second."

"I like *Caryota urens*; it decorates well with almost any kind of plant and is very hardy. *Phoenix rupicola* and *reclinata* are good selling palms. *Reclinata* I think is the best; it is harder than *rupicola* and almost as graceful; there would be more of this family sold only they live so long and don't die off and make room for one another as some varieties do."

"This is a fine house of *kentias*."

"Yes, they are very pretty plants. I see the scale is beginning to show some; this is the season they increase themost."

"What do you do to get rid of them?"

"We wash them off with a preparation made of 2 pounds of whale oil soap, 3 1/2 pint kerosene to 1 gallon of water, boiled together. We use a pint of this to a gallon of water; in using it we use a pan large enough to dip the plants in first, keeping a lot ahead and then go over each leaf carefully."

"There's a scarce article," pointing to a lot of *Pandanus utilis*. "We don't grow these or *Dracena fragrans* into more than 6-inch pots, as the demand for larger sizes of this class of plants is limited."

"Have you found trouble with palm seed coming up of late?"

"Yes, a great deal, and I attribute it to a demand for seed which it is not easy for the collectors to supply, consequently they work in old seed, mixing it up with the fresh. It don't take them long to learn the tricks of the trade."

Three houses finished about two months ago are models, they are 22 feet wide and 12 feet high, side benches 2 1/2 feet wide, the center being a solid raised bed surrounded with brick.

"How are these houses heated?"

"By hot water under pressure; it is the best I think and is coming rapidly to the front. You see if there is any fire at all under this system there is bound to be a circulation, while with steam if the fire goes down there is no movement whatever. Those who like steam can use it, I prefer hot water under pressure. To supply the boilers I have a tank elevated 23 feet and get about 10 pounds pressure."

"You use city water?"

"Yes, but we put in a meter recent'y and our bills are much less than they were. The charge is 60 cents a thousand cubic feet and it does not come to more

at the outside than \$1 a thousand feet of glass. We have about 30,000 feet of glass and our bill last season was under \$30, while it would have been double that under the old system of \$5 a spigot."

K.

The Columbian Exposition.

Work is going on rapidly in preparation, potting and all the regular routine of the season. Plants are being grown on for use at the dedicatory ceremonies in October next. Showy material for filling a large space is required for this purpose; merely floral decoration would be lost in the great hall. Large coleus are being grown, masses of salvia and cosmos and quantities of *Caladium esculentum* and French marigolds.

In the houses one of the most promising features is the large collections of primulas, chiefly of the Chinese section. These are grown from seed supplied by competing firms, all being grown under exactly the same conditions. The display will take place during the winter. It is a most promising lot of plants, showing both the excellence of the strain and the cultural skill exercised on them. Some of the fern-leaved varieties already show unusual excellence of foliage.

Another interesting group of infants was the collection of seedling calceolarias. Everyone who has tried to grow calceolarias in this country knows the difficulty of carrying them safely through the hot weather; a continued warm spell causing them to damp off in great quantities. Mr. Thorpe has an idea to obviate this difficulty, and of course it is a good one. The young plants are in thumb pots, plunged. The side bench on which they stood was arranged with a false bottom, the intervening space having a depth of about 15 inches. A board having hinges at the bottom and hooks to fasten it at the top closed this space in front. This was a refrigerator, lumps of ice being placed in this space, resting on a bed of moss. This gives the cool bottom temperature the calceolarias requires, enabling the grower to carry the plants safely through the most dangerous part of the year.

Cinerarias will also be there in quantity, and there will be a grand display of tuberous begonias in the later bedding. Mr. Thorpe is now experimenting with the last named plants, wishing to settle the question of shade or sun satisfactorily. A portion of the plants now bedded out are protected by a light canvas shade during the hottest part of the day, the remainder being left entirely unprotected. At the present time it is unquestionable that the shaded plants have made better growth and display more bloom than those unprotected. If this is confirmed by further experience Mr. Thorpe intends to have the large display next year, consisting of 100,000 plants, bedded out in a shaded skeleton house similar to a rhododendron tent.

The skeleton of the miniature mountain under the great dome is now being constructed. This will contain a cave or grotto, where there will be a display of the filmy ferns, toadstools and the like. A vista will be left through the mound and the cave will display some unusual effects in electric lighting. Some fine specimen plants are already secured for use under the dome, among them a superb specimen of *Phoenix spinosa*, from the collection of Mr. Gordon of Cleveland.

On the wooded island walks are being put in order and plans being made for future planting. The beds are all filled, but the majority for temporary effect, to

prevent any bareness before the final planting. A pretty feature here will be the use of trained and clipped honeysuckle as an edging for all the beds. The herbaceous display will be very large and the wild garden around the edge of the island is already attractively planted. Ornamental grasses will be a feature here.

Plant Notes.

An excellent old plant for bedding, one that stands dry, hot weather, and which seems to be almost forgotten, is *Gazania splendens*. The ray flowers are bright orange with a black and white spot at the base; the disk flowers lighter.

Another old plant which has grown and flowered very freely during the hot dry weather of summer is *Thunbergia alata*. Both these plants are worthy of more attention than has been given them.

Among the collection of economic, medicinal and poisonous plants at the Missouri Botanical Garden are two which, on account of the beauty of their flowers and foliage and the freedom with which they bloom, are worthy of a place in every collection of ornamental greenhouse plants. They are the Ordeal Tree of Madagascar (*Tanghinia venenifera*) and the Exile Oil Plant (*Thevetia nerifolia*).

Tanghinia venenifera is a native of Madagascar, where it grows to the size of a tree. In the greenhouse it makes a shrub and can be treated similar to *Picus elastica*. The leaves are lanceolate, four to six inches long, glabrous and shining above. The flowers are salver-shaped with white lobes slightly tinged with rose, and greenish, funnel-shaped tube which is hairy within; they are borne in large panicles.

Mr. Telfair is quoted in *The Botanical Magazine* as follows:

"The kernel of the fruit must be a very powerful poison. It is not much larger than an almond, and yet is sufficient to destroy above twenty persons."

The kings of Madagascar formerly used the kernel of this fruit in their trials by ordeal, hence the popular name of the tree. All who were suspected of a crime were compelled to eat a portion of one of these seeds, it being believed that the stomachs of the innocent would reject the poison and they would escape, while the guilty would die, the position in which they fell indicating the degree of guilt.

Thevetia nerifolia is an evergreen shrub with linear glabrous shining leaves, bright saffron yellow flowers and a milky juice said to be poisonous.

A friend brought to us this week a flowering branch of a very pretty and rather rare shrub for which he wanted a name. He received the seed from a lady in Texas, who was treating it as a half hardy shrub, letting it freeze down to near the ground in winter and grow and bloom during the summer. The plant proved to be *Cesalpinia Gilliesii*. It is a native of Brazil. Nicholson, in "The Dictionary of Gardening," says under *Cesalpinia*: "An ornamental genus of stove evergreen trees or shrubs, not much grown on account of the space required and the time the species take to flower." However, in his list he does not give this species, which does not seem to possess either of these objectionable characteristics.

J. C. DUFFEY.

St. Louis.

Agave Engelmanni.

This is a new species, and, so far as we know, the specimen which is the subject of our illustration is unique. We are indebted to the courtesy of Dr. William

Trelease, Director of the Missouri Botanical Garden, for the use of the plate, and to the last Report of the Garden for what we know about this rare century plant.

We are informed that in 1884 the late Dr. George Engelmann visited his friend, the late Josiah Hoopes, and received from him several small seedling agaves. The subject of this notice was one of them, and named *A. attenuata* var. *subdentata*, and it was placed in the Show Gardens, where it grew well and blossomed and fruited last year. A botanical examination has determined that it is not a form of *A. attenuata* at all, nor can it be placed with any other described species, and this has led Dr. Trelease to regard it as a new species and dedicate it to the memory of its eminent donor.

Washington.

The convention of the Society of American Florists is a thing of the past and nothing remains but pleasant recollections of that gathering. The several committees of the National Gardeners' Club are to be congratulated upon the efficient manner in which they carried out the program of reception and entertainment. I don't think a single person can be found among those attending the convention but will say "I am glad I took in the trip to the capital city." Everything passed off in a most pleasant and satisfactory manner; even the weather bureau smiled upon us and seemed to join in with the florists of the city to help make it pleasant and agreeable for our guests. While the days seemed warm to some coming from the north, yet the nights were pleasant. In a conversation with Mr. John Thorpe and several others, I was informed that this convention was by far the best in the history of the society; that there were more members in attendance; that more intelligence was shown in the essays and also in the discussion of them; that the sessions were better attended; the essays were listened to with more attentiveness; although the hall was usually full at every session, each one was giving marked attention to the person speaking from the stage, and yet the social end of the convention was not wanting.

A number of gentlemen expressed themselves as being surprised at the large attendance at the sessions when there were so many social and other attractions in the city. This clearly demonstrates the fact that we can come together once a year, transact the business of the association and enjoy ourselves at the same time, without injury to the dignity of the association, as has been advanced by some in years gone by. I am proud that this fact has been so clearly demonstrated at the convention just so successfully closed. It is to be hoped that the coming conventions may so arrange the social program that it will in no way interfere with the sessions. In arranging our program this was the great object always kept in view, realizing the importance of having a large attendance at every session; this not only encourages the speakers and readers of essays, but helps greatly to carry out the prime object of our coming together—that of interchanging views on the various subjects under discussion, which is very beneficial to all interested in horticulture. Another gentleman was heard to say "this is surely the grandest of all the conventions ever held by the S. A. F. and I have attended them all; it has been a social gathering from a to z; I never enjoyed myself more or got more useful in-



AGAVE ENGELMANNI.

formation. If I am spared I will never miss the conventions." And many similar expressions were overheard in and about the hotels, all of which were very gratifying, not only to the local club, but to the entire association.

In addition to the prizes heretofore mentioned to be bowled for at the convention contest was a medal presented by the Voight Manufacturing Co., value \$12, for the best single game; a handsome silver shaving cup and brush by Mr. J. Karr, one of our leading jewelers, value \$7.50, for the second best single game; a smoking set by Mr. G. Desio, for the third best single game; a very handsome gold medal, presented with the compliments of De Molay Commandery, K. T. No. 4, Mounted, of Washington, D. C., value \$35, for the best individual average in the two games.

The silver tea service presented to President Dean at Mt. Vernon bore the following inscription: "Presented to James Dean by his many friends in the S. A. F.,

at Washington, D. C., August 19, 1892." After the presentation the service was placed on a table around which Mr. Dean and his family were seated and a photograph taken of the group.

Quite a number of the visitors took in the trip to Arlington National Cemetery between the sessions and enjoyed themselves very much. Those who did not go missed a very pleasant part of the sight-seeing. The grounds are handsome and beautifully kept. Mr. W. F. Gude, through the courtesy of one of the bicycle dealers, secured about a dozen machines and got as many of the visitors who were accustomed to the wheel, who took a ride over the city and out through the Soldiers' Home grounds, very much to their delight, all expressing themselves as being highly pleased with the trip. There is no finer park in this section of the country; the drives are magnificent.

The intervals between the morning and evening sessions of the society were devoted to recreation. The visitors formed

in parties under the guidance of the members of the entertainment and reception committees and visited the various public buildings and grounds, finishing Thursday evening at the U. S. Botanic Gardens, where all seemed to enjoy an hour lounging on the grass waiting for the sun to sink far enough behind the western hills to permit the photographer to take a photograph of the association, without those in the group being compelled to squint or shade their eyes, it having been announced that a photograph would be made of those gathering at the garden at that hour. I am happy to announce that an excellent picture has been made of the members of the association, with the Bartholdi fountain and Capitol in the background, and copies can be had for \$1.50 and \$2.00 each, according to size. We regret that the famous *Victoria regia* was not in bloom at this time, that all might have had an opportunity of seeing this wonderful flower in the Bartholdi basin; though this season has been warmer and all the conditions more favorable, yet it will be from a week to 10 days later coming in flower this year.

Thursday afternoon Messrs. J. H. Small & Sons gave a favored few of the delegates an enjoyable tally-ho trip to Cabin John's Bridge. The trip up there was a most enjoyable one I am told, and on arriving at the Cabin John Hotel a lunch was served on the verandas. Several hours were spent in viewing the beautiful scenery and the bridge, which is the largest single span in the world. At 6 o'clock the large banquet hall was thrown open. The floral decorations were very handsome indeed. The center of the main table had a plateau of maidenhair ferns with end pieces of the same thickly studded with roses and hydrangeas. The side tables and buffet had like decorations, with *Lygodium scandens*. The piano was decorated with asparagus and hydrangeas. The ladies' reception rooms were also handsomely decorated, all producing a very beautiful effect. This, however, was not a part of the program of the committee on entertainment, but a personal entertainment given by the Messrs. Small to a few of their friends. At the close of the banquet the party took the coaches, arriving in the city in time to attend the evening session.

Everything is very quiet since the convention. Weather keeps very dry, but much cooler than it was during convention week. The weather bureau continues to predict rain every day, but while the mornings look promising for the much needed showers the evenings are bright and discouraging.

Flowers, such as roses and *Nymphaeas*, are plenty, though the demand is poor. Perles, Brides, La France and Albanys are very fine for this season of the year, in fact they would be called very fair for the winter season. *Nymphaeas*, particularly the day flowering varieties, are very plentiful, and some of the stores make a fine show with them, and roses on their counters, some of them in fine cut glass ware, producing a good effect.

Some of the plants attracting much attention from the northern and western members of the convention, and very much admired by all, were the handsome plants of the white, pink and purple crape myrtle which are very conspicuous in the parks just now.

The long drouth is beginning to have its effect upon our street trees; the leaves are turning brown and dropping off. The one great thing these street trees have to contend with is the very limited space

(in some places necessarily so) left through which they are to get the moisture. With concrete pavements on the one side and brick or granolithic sidewalks on the other they cannot be expected to hold their foliage so long in the fall as they would if allowed plenty of room for air and moisture. Our usual wet springs and warm, early summers cause the street trees to make a luxuriant growth and abundant foliage which they cannot sustain through the August drouths. If the persons in front of whose houses these trees are placed could only be educated up to this point, and would see that they are given water when sprinkling the flowers and lawns in front of their houses, our street trees would not lose their beauty so early in the season; this would add much to the beauty of our city in the early fall.

The beds in the parks and the shrubbery are suffering greatly for want of rain. Unless we get it soon, many fine flowering shrubs will be lost in all the parks.

The evening of August 25 there was to be seen a handsome flower of the *Victoria regia* var. *Randii*, or the "red flower of *Victoria*," in the basin of the Bartholdi fountain at the Botanic Garden. The evening papers published the fact that it would be in bloom and that Superintendent Smith had promised to light up the grounds and have the gates open until 9 o'clock that evening. Hundreds took this opportunity of seeing this famous large-leaved water-lily in flower. The fact of this plant and also *V. regia* having produced a number of flowers at the Botanical Garden last year, and the gates being open several evenings for the public, did not seem to make it common, for the people crowded around the rim of the fountain anxious to peep at both the flower and its wonderfully constructed and beautiful leaves. The plant has several other buds, about half developed. The *V. regia* is also showing buds. Unless the weather turns much colder, Mr. Smith expects to treat the citizens of Washington to many beautiful displays of the *Victorias* and *Nymphaeas* by gas-light in this basin.

John H. Berry, who was for several years foreman under Mr. W. R. Smith at the U. S. Botanical Garden, and afterwards went in business with Mr. J. H. Small in this city, died August 13 at Fruita, Colorado. Mr. Berry was well known in the Eastern States, and went West about fifteen years ago. He leaves a wife and two grown sons.

C. LESLIE REYNOLDS.

New York.

There is general complaint among the florists that business has never been so dull at this time of the year in former seasons as it is now. Flowers of all kinds are flooding the market and it is almost impossible to dispose of them at any price.

This is not to be wondered at when the growers are sending in such enormous quantities of roses and other flowers. It is not unusual to see such invoices as 1,000 *Mermets*, 600 *Brides*, 500 *Hostes*, 1,000 *La France*, 600 *Beauties*, etc., all from one man in one day, so it can be easily understood how the market is so overstocked and prices so low. In former years there were just enough flowers sent in to meet the demand at a fair figure, but now the commission men are receiving almost as many roses as they do in the height of the winter season. At the market in East 34th street during the past week roses were sold as low as one

cent in quantities to suit the buyer and in many cases but 25 in two or more varieties was the whole purchase. Fine white asters sold as low as one to two cents per bunch. *Gladiolus* and *hydrangeas* could not be disposed of at any price.

The shipping of roses to the summer resorts is not what it has been in former seasons, and there is a tendency on the part of the florists at such places to use many more outdoor flowers than formerly.

There are a few exceptions to this general state of affairs; some roses are in good demand and are selling well. This is true of the *Meteor*, which probably averages more than any other rose coming to the market, with the exception of the *American Beauty*. Beauties are coming in in large quantities, but the general fault with these seems to be that they are often short stemmed or imperfect flowers, and in many cases the warm weather causes them to arrive in the market wide open and unsalable.

In 23d street during the past week both roses and carnations were being sold by the fakirs at 10 cents per dozen. If this was the selling price, what must they have paid for them? There is one feature which especially at this season of the year seriously affects the prices of cut flowers, and which it seems impossible to control or crush out; that is the cliques existing among these Greeks. Unfortunately there is no grower or commission man who understands the language they speak and it is impossible to keep track of their movements or plans. If they see that carnations are a little plentiful they quickly arrange among themselves that none will pay more than a certain figure and as much less as they possibly can procure them for, and the grower or commission man dealing with them finds out to his sorrow that they generally hold out and manage to buy at their own prices. Of course when flowers are scarce and the demand good this unity of action does not amount to much, for their trade is not indispensable at such times, as unfortunately it happens to be just at present.

The principal event of the week has been the so-called "Battle of Flowers" at Long Branch. It was expected that a great many roses would be used for this affair, but it proved a disappointment. Mr. Jas. Hart had the largest part of the work in the decoration of the West End Hotel, and the flowers he used were principally outdoor stock, such as *gladiolus*, *hydrangeas*, etc.

All the members who attended the convention from this section have returned and are enthusiastic over the reception they received at Washington, and there is no doubt that the memory of the good times at Washington will influence a good many in this part of the country to take in the trip to St. Louis next season. Although the New York bowling team did not succeed in winning the cup, they are very much pleased at the rolling of Chas. L. Doran, who succeeded in carrying off the gold medal for the highest score, and they find consolation in the fact that a New Yorker proved the best man and in the reflection that there is another year coming.

The committee of the New York Florists' Club consisting of Messrs. Jas. Dean, John H. Taylor, C. H. Allen, Chas. B. Weathered and Frank K. Pierson are making every effort to secure an appropriation from the state to be used mainly for the transportation of plants, etc., to the World's Fair. With this end in view Messrs. Pierson, Taylor and Dean went

to Albany on Friday, the 26th inst., to confer with the state department.

There have been a great many visitors in New York during the week from the west and elsewhere, and probably if they were all called together at a given point they would almost be a little convention of themselves. All of them are of one voice—the convention at Washington was a huge success.

Messrs. Hitchings & Co. are making extensive alterations in Mr. Weir's new store in Brooklyn and are building a greenhouse for palms and decorative plants over the store. When completed Mr. Weir expects to have the finest floral establishment in this country. In the meantime Mr. Weir is enjoying a much needed vacation at Red Bank, whither he has gone with his family.

Boston.

Business is very little dull about the flower stores. There is a little scasid demand but not enough to make any impression. As usual at this season of the year first-class roses are hard to get, and so, although the great bulk of roses coming in are sold as low as \$2 per hundred, yet the best *Beauties* will bring from \$8 to \$15, and *Meteors* from \$4 to \$10. These prices would not hold long, however, if good quality flowers were abundant.

The Boston party en route to Washington was almost bewildered by the attention shown them by the New York and Philadelphia people. There is but one regret expressed, viz., that Boston is geographically so situated that the prospects of their getting a chance to reciprocate in kind seem very remote. But perhaps we shall go to Bar Harbor for a convention some time, and then will be Boston's opportunity to get even with the boys.

Something always happens here when a convention is in progress elsewhere. It seems as though the absence of the majority of the solid men of the town leaves the remainder in a badly unbalanced condition. This year the sensation is the disappearance of J. C. B. Rogers, a Washington street florist, an actress of his acquaintance disappearing at the same time.

The garden committee of the Massachusetts Horticultural Society paid a visit to the New England Nurseries of Fisher Bros. & Co., at Montvale, on August 25, the principal attraction being the French canna's, of which there is a magnificent display in the field, and the cyclamens, which have always been a specialty here. One peculiarity of the season, which Mr. Fisher is unable to account for, is the early blooming of the cyclamens, they being at the present time covered with flowers. Much favorable comment was made upon the thrifty appearance of everything in the houses. One house is filled with *Adiantum Farleyense* in splendid condition, and several are devoted to *A. cuneatum*, the *Reenbeck* variety being grown exclusively. A fine house of *Asparagus plumosus* is made to do double duty by having grapes trained on the rafters overhead and a good crop of Hamburgs is now ripening. Where David Allan is interested there are sure to be dendrobiums, so we find a collection here which it would be hard to beat for novelties. There are *Arnoldianum*, *Burfordense*, *Cooksonii*, *Sanderianum*, *Bach-housianum*, and many more of like rarity, and this was where the orchid fanciers preferred to linger.

A party of gardeners and florists made a visit to the beautiful grounds of Mr. John L. Gardner, at Brookline, on the 18th inst., and spent the afternoon in

inspecting and admiring the well grown orchids and hardy herbaceous stuff which are Mr. Atkinson's especial pride.

The annual exhibition of plants and flowers will open at Horticultural Hall on Tuesday, September 6, at 3 p. m., remaining open until Friday night. A fine display of aquatics is looked for.

Welch Bros. are soon to move to a new location, No. 2 Beacon street, where they will have a very commodious and accessible store.

Chicago.

It is generally reported that trade has been better than usual this summer. July was unusually busy for a summer month, and although August has been quieter than the preceding it is the usual experience with the trade.

Thos. J. Corbrey has just returned from a five week's trip to Lake Geneva. Mr. Corbrey was under the impression that active trade was over when he left, but during his absence business was so large that extra help was necessary, some large decorations were called for, as well as funeral work. Palms, ferns and pot asters made the chief decoration at this store, being the most effective material at this season.

Another West Side florist who always makes an attractive display is H. F. Halle. Mr. Halle is now making some changes in the arrangement of his store, which is new and fitted with all conveniences. The chief feature is the conservatory at the back, which is most attractive in arrangement. Directly opposite the entrance, which is on a level with the store, is a sloping arrangement of decorative plants on either side of a stairway, which leads to the greenhouses proper. This lower house has the walls covered with cedar bark, laid on flat, at intervals there are little pockets left in the bark for the purpose of holding plants. These are planted with *Ficus repens*, *Philodendron pertusum* (syn. *Monstera deliciosa*) and various ferns. In a year or two this will be a mass of green, and even now, with the plants just started, the effect is charming. Mr. Halle says that July was a busy month, though there is little going on now.

An immense rosette of deep orange color attracted attention in I. C. Silliman's window last week. On closer inspection it proved to be a fungoid parasite found on decaying wood; it was about 12 inches across, in shape like a semi-double petunia. Mr. Silliman is engaged in arranging his new store, which has a good greenhouse at the back; this will be filled with plants for autumn sales. Mr. Silliman grows most of his summer flowers at Waukegan, having a place there.

It is generally stated that carnations are not only scarce now but likely to continue so, so many of the plants being drowned out during the continuous rain earlier in the summer. McKellar & Sperry express the belief that roses will be correspondingly plentiful, as growers have been filling up with roses in place of carnations. Roses are coming better in color and substance now; La France is the best, though some very good *Perles* were noted. Sweet peas have been fairly scarce all summer; more have been coming in the past week than previously. Yellow dahlias are seen in small quantities.

At the next meeting of the Florists' Club T. J. Corbrey will give a report on the city "crape pullers," which will be likely to arouse a lively interest in the subject.

P. J. Hauswirth returned from the east August 25. Mr. Hauswirth makes an attractive display of pink water lilies.

Late flowering asters in pots are being prepared for the autumn sales. They sell well as house plants at that season.

M. F. Gallagher has secured the right to supply all the flowers sold on the Exposition grounds.

Among recent visitors to the city were A. H. Bunde, St. Paul; T. R. Kenwick, Grand Rapids, Mich.; Harry Balsley, Detroit.

You can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

FLORISTS' HAIL ASSOCIATION.

REPORT OF THE SECRETARY.

On August 1, 1892, there were 426 members of the Florists' Hail Association. These members insured 4,078,725 square feet of glass, of which 1,887,192 square feet were single thick and 2,191,533 square feet were double thick. Extra one half insurance has been taken of double thick feet of single thick and upon 94,651 of double thick. Extra whole insurance has been taken upon 339,817 square feet of single thick glass and 331,552 square feet of double thick glass. The third assessment was levied on May 1, 1892, upon 349 members, of this number only 19 were delinquent. The amount paid in for this assessment was \$2,427.42. The total amount received from August 1, 1891, to August 1, 1892, upon all applications, including membership fees, was \$18,594.45. The reserve fund or membership fee on August 1, 1892, consisted of \$2,000 in county and school bonds and \$52,113 in the hands of the treasurer still uninvested. The available assessment fund after paying all losses and expenses was \$3,454.74. The following losses have been paid during the past year: To Arthur Thornhill, Rosedale, Kansas, \$4.90; to M. J. Coventry, Fort Scott, Kansas, \$3.59; to J. F. Coen, Jr., Lexington, Mo., \$7.10; to L. A. Smith, Wheeling, W. Va., \$1.88; to Probst Bros., Floral Co., Kansas City, Mo., \$37.10; to Chapin Bros., Lincoln, Neb., \$23.12; to Harry Baker, Bessemer, Colo., \$21.85; to J. F. Coen, Jr., Lexington, Mo., second loss, \$16.07; to J. J. Schumaker, Sioux Falls, South Dakota, \$46.14; to James McNab, Cantonville, Ill., \$7.25; to R. A. Rollinson, Des Moines, Ia., \$18.72; to Rudolph Koeppe, Springfield, Mo., \$7.70; to F. Calvert & Son, Lake Forest, Ill., \$64.39; to John W. Bornease, Butler, Pa., \$29.13; to L. C. Dickhut, Chatham, N. J., \$1.80; to W. M. Noe, Madison, N. J., \$66.32; to Harry Baker, Bessemer, Colo., second loss, \$62.20; to Henry Kingston, Council Bluffs, Ia., \$18.70; to James Frost, Greenville, O., \$7.18; to H. W. Buckee, Rockford, Ill., \$65.22; to M. J. Coventry, Fort Scott, Kans., second loss, \$10.60; to Mrs. A. Berdan, St. Louis, Mo., \$32.30; and William J. Scott, Buffalo, N. Y., \$165.93, making a total of \$661.67, from which \$12.76 has been retained for reinsurance. The total amount of single thick glass broken was 13,418½ square feet and of double thick was 3,743½ square feet. The percentage of loss for the past year has been one square foot of single thick glass for every 149 8-13 square feet insured, and of double thick twice as large foot of loss to every 59½ square feet insured. So far your secretary has been able to learn hail storms have visited the following localities: Elizabethport, N. J., Sawyer, Minn., Carlisle, Ohio, Mount Washington, Md., Wadena, Minn., Brooklyn, Mich., Rosedale, Kans., Cloud Minn., Fort Scott, Kans., Lexington, Ky., Martin's Ferry, W. Va., Coffeyville, Kans., Burlington, Kans., Lexington, Mo., Westmoreland Co., Pa., Wheeling, W. Va., St. Louis, Mo., Kansas City, Mo., Lincoln, Neb., Pueblo, Colo., Corning, N. Y., Cleveland, Ohio, Bessemer, Colo., Canton, Ohio, Lake Forest, Ill., Butler, Pa., Springfield, Mo., St. Paul, Minn., Chas. E. Bradton, Pa., Kalamazoo, Mich., and Tuxedo Park, N. Y. The increase in membership has been steady, the adjustment of all losses satisfactory, and old members have stated their confidence in procuring their increased areas of glass. The wisdom of a reserve fund is daily more apparent and the pro-rating of all losses furnishes an equitable method of adjustment. The financial condition of the association speaks for itself. The changes in the by laws made it necessary to entirely change all blank forms in use and the increase in membership made it necessary to procure new books to keep the accounts of the association. This, together with the increased correspondence of both secretary and treasurer, has considerably enlarged the stationary and expense account over former years, but not one dollar of the funds of the association has been expended that was not absolutely necessary, it having always been the object of the officers and directors to

run the business of the association at a minimum of cost. JOHN G. ESLER.

TREASURER'S REPORT.

August 1, 1891.
Balance of cash on hand last report \$138.23
Rec'd from new and additional insurance 1,817.69
Received from 3rd assessment 2,427.42
Received from interest on bonds. 95.00
Total \$6,258.31

DISBURSEMENTS.

Losses paid during the year \$ 810.91
Sundry expenses 385.45
School bonds bought 1,426.78
Cash on hand \$2,262.14
Total \$3,956.17 \$6,258.31

1891. Loss Sundry ex.

Aug. 31—Hackensack Republican printing notices. \$ 4.00
J. G. Esler, commissions 10.50
J. G. Esler to July 31, '91 postage 21.26
Secretary's salary from Jan. 1, '91, to July 31, '91 Hackensack Republican printing certificates. 116.00
Exchange on check. 3.50
Sept. 7—Exchange on check. 25.25
25—2 \$300 Hinsdale school bonds and interest. 1,026.78
30—American Republic printing envelopes. 20.40
Hackensack Republican printing envelopes. 10.75
Oct. 12—Wilson Humphreys & Co. postage on checks. 12.00
Expressage on same. 1.05
Nov. 5—A. F. Thornhill, Rosedale, Kansas. \$ 4.82
16—Hackensack Republican printing circulars. 8.00
18—M. J. Coventry, Ft. Scott, Kansas. 13.36
Dec. 5—Florists' Exchange adv. 1892. 7.50
Jan. 13—Hackensack Republican printing and stationary. 10.00
Feb. 27—A. T. Delamare, printing assessment blanks. 4.00
April 9—A. T. Delamare, printing application blanks. 3.00
Wilson Humphreys & Co. See record book. 30.00
Expressage on above. 1.55
Wilson Humphreys & Co. T. record book. 12.00
Expressage on above. 4.33
13—J. P. Coen, Lexington, Missouri. 26.77
Hackensack Republican printing envelopes. 2.01
22—A. T. Delamare printing L. A. Smith, Wheeling, W. Va. 5.60
27—M. Florist Directory. 1.83
28—Probst Bros., Kansas City, Mo. 2.00
May 2—Chapin Bros., Lincoln, Neb. 36.60
H. Baker, Bessemer, Col. 22.73
J. F. Coen Lexington Mo. 21.49
J. J. Schumaker, Sioux Falls, S. Dak. 15.87
25—Hackensack Republican printing receipts. 45.66
J. McNab, Cantonville, Ill. 2.50
31—M. J. Coen, Lexington, Mo. 7.13
June 14—Florists' Exchange, adv. J. C. Vaughan, stamped envelopes. 6.50
A. T. Delamare, stamped envelopes. 3.31
R. A. Rollinson, Des Moines, Ia. 10.73
F. Calvert & Son, Lake Forest, Ill. 63.27
R. Koeppe, Springfield, Missouri. 7.62
J. W. Bornease Butler Pa. 28.76
L. C. Dickhut, Chatham, N. J. 2.81
28—L. M. Noe, Madison, N. J. 55.38
July 1—H. Baker, Bessemer, Col. 59.79
5—H. Kingston, Council Bluffs, Iowa. 18.56
J. Frost, Greenville, O. 7.17
6—H. W. Buckee, Rockford, Ill. 64.83
12—M. J. Coventry, Ft. Scott, Kansas. 19.41
18—A. Berdan, St. Louis, Mo. 89.98
20—Hackensack Republican printing. 10.75
22—Exchange on checks. 7.50
23—A. T. Delamare, printing notices. 5.50
27—Wm. Scott, Buffalo, N. Y. 166.20
July 30—Treasurer's salary, one year from July 21, '91. 50.00
J. C. Vaughan stationary and postage. 10.00
Total \$819.91 \$1,412.23

J. C. VAUGHAN, Treasurer.

Philadelphia.

John Smith, foreman for Robert Craig, will resign his position September 1 and go into partnership with F. W. Whiteley at Lansdowne. Forcing roses for the Philadelphia market will be their principal business. Two houses, 120x20, have recently been added, making some 13,000 feet in all.

The team that won the cups at Washington was held challenged by a team captained by John Westcott who was to have played in the match, but who was delayed at Mt. Vernon. The match will be a close one.

Just a few remarks dropped since: "It has taken me a week to get over it, and I spent that in the country where I was not likely to be disturbed." D. D. L. F.

"I am sorry I did not go with the boys. Going down a few days later I heard a great deal of what had been done; but everybody seemed a little dull, as if they had had a surfeit." Geo. C. Watson.

Ephraim, Daniel and Elijah were frequently seen together; three biblical (not bibulous) characters; there is no doubt their presence was much appreciated, particularly at the experience meetings held between the sessions.

"It took a strong man to stand it; there certainly wasn't much chance for rest if you attended the convention and took in all the social features as well." E. Lonsdale.

"We had a great time and no mistake, and we have two cups to show for it." Capt. Anderson.

"It was a grand convention." R. Craig. "I guess I saw as much as anybody else, and there was plenty to see." C. Longinette.

"Oh yes, it was all right; had a good time. What do you want to buy?" W. J. Baker.

The bowling match has put some enthusiasm into the dormant players, the back numbers, as it were; for instance, E. Lonsdale put up 228 Saturday last.

K.

Buffalo.

The Buffalo delegates to Washington arrived home very scattering, the last to arrive being Dan L. Long, on Friday a. m. But if we did not agree on the time of our return, we all agree that the Washington florists, and further than that, the Washington people at large, are the most courteous and hospitable people I have seen our luck to fall among. Your correspondent came home with the determination to play "old Harry" with the work before him, and so much was never in view before at this season, but alas, it was the second week of our fair, and that has kept us busy. From another source you will receive an account of the prize-takers, etc. The great railroad strike greatly injured the attendance, as well as keeping back many exhibits, and the fair has closed a financial failure. Many expressions were heard that flowers, music and Edison's magnificent electric display (all of which was grouped together) was the feature of the show. The display of designs (not funeral) on Tuesday of the second week was very fine, and attracted great attention from the large crowd present. I noticed that many flowers, such as asters, lilies, and gladioli lasted the ten days in really good condition, and even carnations kept three or four days. Flowers in designs and baskets kept much better than usual. The cause of this, I think, was that instead of the dry boards which are usually used on such occasions,

the benches were covered with about two inches of wet sand. The sand was moistened daily, and from it was continually arising a low, moist temperature. This, perhaps, is worth remembering.

Mr. R. P. Laurance, of 302 Main street, sold out this week his retail business to Mr. S. A. Anderson. Mr. Anderson was, till within two months ago, head man at the store of W. J. Palmer & Son.

We have had sufficient timely rains to keep things growing nicely outside, and carnations are looking well.

Mr. W. Mott, of Philadelphia, spent a day here on his way West. He was not pushing business heavy. Seemed more to be recuperating from the convention.

G. S.

The Buffalo Exposition closed August 27. The floral department appeared as fresh to the casual observer as it did a week before, the cut-flower exhibits having been rearranged each day and fresh material introduced, though some of the flowers staged on the 18th were still in fair condition. Altogether, the department was a great success.

In the plant and cut-flower classes Scott took 8 firsts, 7 seconds and 7 thirds; Pickleman 8 firsts, 4 seconds and 6 thirds; Rehstock 4 firsts, 4 seconds and 3 thirds; Milley 1 first, 5 seconds and 1 third; A. J. Scott 1 third.

In designs Scott took 4 firsts, 2 seconds, 2 thirds and 2 fifths; Rehstock 1 first, 1 second, 4 thirds, 1 fourth and 3 fifths; Pickleman 1 first, 3 seconds and 2 fourths; Adams & Nolan 1 third and 1 fourth; Dennis O'Connell 1 fourth and 1 fifth; A. J. Scott 1 fourth.

The superintendent was cheered on Monday by the faces of the veterans returning from Washington.

On Tuesday our Toronto friends dropped in for a call. They were fresh from surf-bathing at Atlantic City and had lost some of the bewildered look that characterized the first arrivals.

P.

Toronto.

The boys came straggling home from Washington like lambs that had strayed from the fold. I believe they are now all safely housed in their respective domiciles. Some of them took in New York, some Philadelphia, and some both, on the return journey. So far I have only seen two of them, and they give glowing accounts of their reception and entertainment by their American brethren.

E.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 2¢ a line in each issue, with one insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By young man of about 25 years' experience as florist. References given. Address NELSON PETERSON, Salist Herbert, S. D.

SITUATION WANTED—By a first-class florist; married German, 38 years old; 15 years' experience. Prefer private place. Wanted by Oct. 1, 22. G. HENNINGHOFF, E. Kharl Lake, Wis.

SITUATION WANTED—In a commercial place, foreman or manager; 20 years' experience growing roses and florist's stock. Reliable. References. Florist, No. 5 Kimball Court, Natick, Mass.

SITUATION WANTED—By a young man, 32, wishing to work as assistant in private or commercial place; he has 6 years' experience. Address H. H. 410 Tenth St., (rear), Hyde Park, Scranton, Pa.

SITUATION WANTED—By a florist list of October 2, on a commercial place; thoroughly understanding greenhouse work; strictly sober, honest and studious to the business. Philadelphia preferred. Address COMPETENCY, care American Florist.

SITUATION WANTED—By a young German-American lady, to take charge of a fine retail flower store; understands design work of all kinds of cut, artificial and dried flowers. Address MISS R. HILDEBRAND, care Mrs. Emmott, Nantucket, Mass.

WANTED—Stock for new greenhouses. Send catalogues of prices. FAIR & DANE, box 311, Bloomington, Pa.

WANTED—A florist with some experience; would prefer marriage. Address THOS. T. HOLTON, Morristown, N. J.

WANTED—By September 15th or before, single man, sober, honest, industrious and willing to work; good grower and propagator and able to make up must have good references—others need not apply. Wages \$20 per month with board and room. Address VICTOR JOHNSON, P. O. box, Colorado.

FOR SALE—David Smith boiler No. 5, in use 6 years. Address J. B. REYNOLDS, Marlborough, Mass.

FOR SALE—Hitchings saddle boiler No. 3, new last fall, cost \$65; sell for \$30. C. O. H., good as new. W. A. LEE, Burlington, Vt.

FOR SALE—Locomotive steam boiler, 20 horse-power, in good condition. Address JOS. F. SMITH, East Burlington, N. J.

FOR SALE—A florist at the greenhouse has been latched, doing a first-class business. For particulars apply to 2602 Olive St., St. Louis, Mo.

FOR SALE—Nursery and fruit farm of 40 acres, with assortment of trees, small fruits, flowering shrubs and plants, greenhouse, bathhouse, etc. Price, \$2,400. B. S. SMITH, Grand Junction, Iowa.

FOR SALE OR LEASE—Old established florist plant business, 7 acres, with greenhouse, bathhouse, city water, good location. A bargain. Address H. care American Florist, Chicago.

FOR SALE OR LEASE—Will take partner with small capital; three greenhouses and barn in suburbs of Chicago with good general retail trade. Address MRS. LOUISA HENNINGHOFF, Cor. Tuohy Ave. and Grove St., Rogers Park, Ill.

FOR RENT—Hothouses on St. Ives park farm, corner Grand Ave. and Ridgeland Ave., Chicago, one-fourth mile north of Galewood on St. Paul R. R., will be rented with or without plants for cash rent or on shares. Apply to Fred Starr, on the farm, or Edgar Holmes, 36 Washington St., room 32.

FOR SALE OR LEASE—Very rare chance for good party. I will sell, lease or let on shares my florist business on account of poor health; very desirable location; flowers sold on premises. Come and see for yourself. Possession at once. Business can be greatly increased. Address LOTTIS R. FOX, Gloverville, N. Y.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City. Stock and house in A1 condition. Houses all planted mostly American Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care Am. Florist.

FOR SALE AT A BARGAIN—Only greenhouses in city; 1,000 feet of glass; 4 greenhouses in good repair, steam and water heating, fine stock of plants, speeded trade all year, 5 acres land, small fruits—big crop this season. Everything being prepared for this winter's bloom. Commodious dwelling house, barn, etc. Will exchange for farm or other property. Write to W. J. BIGGAR, Fremont, Neb.

FOR SALE—CHEAP 3 greenhouses 20x12, built in 1888 on large lot in market for 15 years. Tools, pots, winter stock of carnations, bouvardias, violets, chrysanthemums, etc. Hanted with Myers hot water boiler; good local trade in town of 1400; near depot, 10 miles from Phila.; established stand in 12th street market, Phila.; a bargain, \$1,300, built on mortgage. Address FLORIST, 12th Street Market, Philadelphia.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heads of stems; grapes 80 feet long just coming into bearing, recently built; 20 acres of land; abundance of fruit; large house containing 15 rooms, new barn; with 30 head of milk cows; 100 head of cattle from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARKIN, Touchenham, Chester Co., Pa.

Supply Flowers.

Florists requiring regular supplies of **FIRST CLASS** stock for their trade are almost certain to secure satisfaction by giving us explicit orders and leaving the matter to our hands. We have quantities of choice stock at our disposal which will soon be ready for delivery in large or small lots, daily, tri weekly or semi-weekly. We have it shipped, where possible, direct from the growers, so do not stop to calculate on the distance from our office, we may have just the stock you are looking for, very close to you whether you are East or West. We do your business for you anywhere.

The Wisconsin Flower Exchange.

131 Mason St., MILWAUKEE, WIS.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Mention American Florist

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers & Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.
Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON, —*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

Welch Bros.
WILL REMOVE TO
No. 2 Beacon Street, Boston, Mass.
(near Tremont).
SEPTEMBER 8.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Liste, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
* **WHOLESALE** *
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

@Wholesale Markets.

Cut Flowers.		NEW YORK, Aug. 30.	
Roses, Perles, Sunsets, Gontiers.....	1 00@	2 10	
" Mermets, Brides, Niphotos.....	2 00		
" Watteyilles, Hostes, Bennetts.....	1 00@	2 00	
" La France, Albany.....	2 00		
" Beauty.....	8 00@	15 10	
Carnations.....	50@	75	
Valley.....	4 00@	6 00	
Adiantums.....	1 00		
Smilax.....	10 00		
		BOSTON, Aug. 30.	
Roses, Beauties.....	8 00@	15 00	
" Meteor.....	4 00@	10 10	
" Fancy.....	4 00@	5 00	
" Primrose.....	2 00		
Carnations.....	1 00@	1 50	
Cladiolus.....	2 00@	4 00	
Asters.....	35		
Tuberose.....	30		
Valley.....	4 00		
Adiantum.....	1 00		
Smilax.....	12 10		
Anaparns.....	50 00		
		PHILADELPHIA, Aug. 30.	
Roses, La France, Albany, Brides.....	2 00@	3 00	
" Perlas, Niphotos.....	2 00@	3 00	
" Marie Guillots.....	2 00		
Valley.....	6 00		
Sweet peas.....	25@	40	
Gladioli.....	2 00@	4 10	
Tuberose.....	4 10		
Carnations.....	75		
Asters.....	50@	75	
Adiantums.....	1 00		
Smilax.....	15 00		
		CHICAGO, Aug. 30.	
Roses, Perle, Niphotos, Gontier.....	2 00@	4 00	
Carnations, long.....	1 00		
" short.....	75		
Smilax.....	1 50@	2 00	
Asters.....	60@	65	
Anaparns, doz.....	75	1 00	
Gladioli, doz.....	45	9 00	

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
* **WHOLESALE.** *
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES.
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.
Mention American Florist.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER, JAMES PURDY
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING

THEO. ROEHR'S,
— WHOLESALE —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

WHOLESALE
FLORISTS
LeRoche & Stahl
* **PHILADELPHIA.**
N. E. CORNER
13th & Chestnut Sts.,
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

WM. ELLISON,
(Late of ELLISON & KUEHN).
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

☉ The Seed Trade ☉

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggart, chairman membership committee, Wethersfield, Conn.

THE DEMAND for freesia bulbs seems to exceed the supply.

THE onion seed crop in Kansas is expected to turn out fair.

MR. BURPEE says radish seed is a very short crop in Europe.

ECKFORD has made a fine new white sweet pea *Blanche Burpee*.

FIRST CLASS freesia bulbs are scarce; so are L. Harrisii of 9 to 12 inch size.

RECENT reports from California indicate a poorer crop of onion seed than was first expected. Eastern crops are said to be good.

MR. W. ATLEE BURPEE and wife returned from Europe August 18. Mr. and Mrs. W. H. Maule arrived on the same steamer.

MR. F. BARTELDES passed through Chicago recently on his way to Elkhart Lake, Wis., where his family has been spending the summer.

MR. S. B. DICKS, representing Cooper, Taber & Co., of London, is making his fall journey in this country. He reports spinach and parsley seed scarce.

THE onion seed crop in Michigan is reported to have suffered from blight in common with that of California, only Connecticut reporting a good yield.

AUGUSTA, GA.—The store of the Alexander Drug and Seed Company was destroyed by fire August 27. They will resume business as soon as satisfactory quarters can be found.

THE Giant gladioli hybrids of Sander-soni X *Gandavensis* originating with Max Leichtlin will probably be introduced by John Lewis Childs the coming season together with the new *Lilium speciosum Opal*.

A Big Business and Growing.

Statement of amount of business done at Floral Park, N. Y., post office, for the fiscal year ending June 30, 1892, with comparison to the previous year:

	1892.	1891	Increase.
No. sacks dispatched....	12,239	5,557	186 per cent.
No. reg. letters handled....	21,576	15,028	43% per cent.
No. of money orders and postal notes....	100,616	61,025	55% per cent.
Am't of business transacted N. Y. P. O. for part of of money orders and postal notes....	\$159,645	\$161,340	5 per cent.
Am't postage stamps sold....	\$ 21,619	\$ 18,136	19 per cent.

Prospects of the Seed Crop in Holland

It is well known that large breadths of agricultural and garden seeds are grown in the Netherlands. Advances from one of the most important seed producing districts—Enkhuizen show that there, as in England, the harvest will depend largely on the prevalence of dry sunny weather during the next two months. Cauliflower is in full bloom and decidedly promising. Cabbage, Savoy and winter greens look satisfactory on the whole, but the caterpillar has injured them in some parts. Swedes look well. Turnips and mangels are by no means favorable. Beets prom-

ise well at present. Spinach and peas are satisfactory, but radish a poor crop, with the exception of the white Spanish. Onions are good. Beans and cucumbers stand well, but want warm weather. Carrots look satisfactory, and parsley, which promises to be a thin crop in this country, is represented as being very good. The next six weeks will be an anxious time for the seed grower at home and abroad.—*Gardeners' Chronicle*, August 20.

Baltimore.

There is nothing new about business except that each slight change in the weather for the better, that is the cooler, improves trade slightly. The supply is fully up to the demand in everything. The state of things may be guessed when fair Perles and La France are hawked about from store to store at 1½ cents each.

The club meeting was well attended. Secretary Esler, of the Hail Association was out and talked to the boys. The question box when opened had at least one question that attracted a good deal of attention. Who is the best looking man in the room? provoked such a difference of opinion that it was put to a vote, and Mr. Gilbert Patterson securing the largest number of ballots, was awarded the palm for beauty. It would no doubt be interesting to know the points that influenced the votes and left so many able competitors behind.

Mr. R. Vincent reports a surprising yield of callas. From a solid bed in the center of his greenhouse containing 500 plants he cut 500 dozen flowers during last winter. His houses are on marshy land with water within eighteen inches of the surface; the beds in which he plants the roots are made up twelve to eighteen inches above the floor of the houses.

All hands have about settled down to hard work again after the Washington trip, but the memory of it will be a pleasure to those who went for a long time yet.

MAACK.

NEWPORT, R. I.—The Newport Horticultural Society will hold its fall exhibition of fruits, flowers and vegetables September 6 to 8. The exhibition will be held in a large waterproof tent at the corner of East Bowery and Bellevue ave.

HARDY CUT FERNS

MOSS (SPHAGNUM AND GREEN SHEET.

A 1 IVY LEAVES BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.

HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

Mention American Florist.

CALLAS.

Dry bulbs, different sizes, 3 to 10 cents
TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery.

BRAUER & RICHTER, McConnellsville, O.

ABOUT 1000 CHRYSANTHEMUMS

left, including only best varieties, cheap, or exchange for Violet clumps

Will exchange for Roses *The Bride*, only good stock

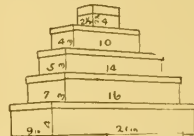
C. K. HOFFMEYER, Allegheny, Pa.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 166 pages. Sent \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Paper Boxes FOR FLORISTS.



All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street, CHICAGO

3,000 JACQUEMINOT ROSES,

From 3-in. pots, 85 per 100; 4-in. pots, 80 per 100; 5-in.

pots, 85 per 100.

2,000 *Regina Rex*, from 3-in. pots, 85 per 100.

3,000 *English Ivies*, from 4-in. pots, 2 ft. high, 85

per 100.

5,000 *English Ivies*, same size, lifted from open

ground, 85 per 100.

10,000 *Violets*, *Marie Louise*, strong June cuttings,

rooted out door, positively no disease, 85 per 100.

2,000 *Bonverna* *Davidson* and *Alfred Neuner*, 3-in. pots, 85 per 100.

500 pots of *Acorus variegatus*, strong plants, due

for trimming in floral work, 80 per 100.

All guaranteed to be healthy and vigorous. Will

exchange on reasonable terms for thirty young stock

of *Bonverna* *Davidson*.

JOHN RECK, BRIDGEPORT, CONN.

When ordering mention American Florist.

FIELD GROWN CARNATIONS.

Florists desiring Carnations of the leading varieties at a low figure will do well to communicate with

FRED I. VOSE,

Beacon Side Nurseries. CUMBERLAND HILL, R. I.

SMILAX.

Strong young plants, 2½ inch pots,

\$2.00 per 100; \$15.00 per 1000.

GEO. SOUSTER,

* * * ELGIN, ILLINOIS.

REX BEGONIAS.

1,500 fine assortment in 2½ and 3 inch pots,

strong plants, \$4.00 per 100.

Also *Pleris hennia*, \$4. Cash with order.

LOUIS SIELZIG, Florist,

E. Main Street. SPRINGFIELD, O.

TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and

Requisites. They are the

best at the lowest prices.

PRIZE LAST issued quarterly, mailed free to the

seed only.

HENRY A. DREER,

Philadelphia

Mention American Florist.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

53 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon

application.

Mention American Florist.

LILY of the VALLEY.

Hamburg grown, best for early forcing.

1,000.....\$ 7.50

10,000..... 72.50

50,000..... 327.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow. It must be fresh, well spawned, and in good condition. Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, "Mushrooms for the Million," mailed free. Falconer's "Mushrooms and How to Grow Them," published at \$1.00. (Gardiner's price \$1.35 post free.) Robinson's "Mushroom Culture," 50 cts. post paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$3.00 per 100 lbs. Special rates to large growers. Address all correspondence to 21 North Thirteenth Street, Philadelphia, Pa.

JOHN GARDINER & CO.

DIRECT FROM THE GROWER.**BULBS, ETC., ETC.**

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendael and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3113. Warehouse 58 West Street, NEW YORK CITY.

Ask for General Wholesale Catalogue.

LILIUM HARRISII.

Solid well-ripened Bulbs.
7 to 9-inch, per 100, \$5.50; per 1000, \$50.00
9 to 12 " " 11.00; " " 100.00
All bulbs for florists in season.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

C. G. VAN TUBERGEN, Jr.,
HAARLEM, HOLLAND.

Grower and cultivator of choice Dutch bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents.

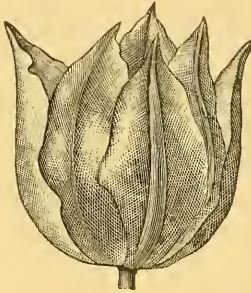
C. C. ABEL & CO., P. O. Box 920, New York.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Duc Von Thol Tulips.**SPECIAL.**

Our agent has secured very low rates on these valuable early forcing Tulips by buying in large lots, and we are able to make the following SPECIAL. Order now.

	Per 1000	Per 100
Scarlet.....	\$4.25	\$.60
Red and Yellow.....	7.25	.85
Rose.....	17.50	2.00
White.....	17.00	1.90

We make a Specialty of all Bulbs for Florists Forcing

"IN SEASON."

NEW YORK:

12 Barclay Street.

J. G. VAUGHAN,

CHICAGO:

P. O. Box 688.

H. A. DAACKE, SEEDS AND BULBS,

410 West 14th Street NEW YORK.

DUTCH BULBS

NOW READY.

IMPERIAL GERMAN PANSY SEED, \$4.00 per ounce.

STOCK THAT SELLS WELL!**LILY OF THE VALLEY**

FROST RIPPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaves.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

Mention American Florist.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS.

AUSTRALIAN Palm Seeds.

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

Bulbs and Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,

IMPORTER.

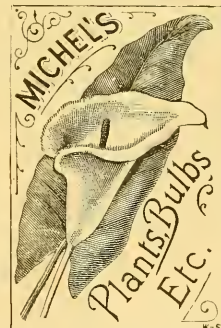
3 COENTIES SLIP, NEW YORK

Mention American Florist.

BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Allona, Hamburg, CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.



Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

Grevillea Robusta.

	Per doz.	Per 100
2½-in. pots, 12 in. high.....	\$1.00	\$ 8.00
3-inch pots, 15 in. high.....	1.50	12.00
3½-in. pots, 18 in. high.....	3.00	
6-inch pots, 24 to 30 in. high...	6.00	

NATHAN SMITH & SON,
ADRIAN, MICH.
Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb. **OUR SPECIALTY!** True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

Rose Propagation in Frames.

I am now at this time, and have been since spring, propagating roses (both inside and outside wood) in frames by a new arrangement of my own for bottom heat, which does away with manure and works better down here.

My frames are 3x12-4 sash to a frame 18 inches high at the front, 24 inches at the back, a board bottom 6 inches from the top, on which is put a layer of moss and then 2 to 2½ inches of sand in which the cuttings are put. At the back and in the middle I have a small door on hinges which opens under the bed of sand, where I have a small oil stove with sheet-iron drum and tin pipes (2 and 3 inches) leading out four ways under the sand bed. I can regulate this to any heat I desire, burning day and night and using less than 1 quart of oil in 24 hours. I had good success with the last lot potted off a week ago—some varieties were rooted and potted in 21 days. I now have three beds going. The pipes are run on an elevation from the drum, 1 inch to the foot, and a vapor pan on top of the drum. The cost of the oil stove and pipe for each frame is \$4. The moisture is so great from underneath the sand bed that I scarcely use any water at all on the cuttings, none at least for 10 or 20 days. Tennessee. JOHN M. GIFT.

SHADING.—A point noted at the U. S. Botanic Garden in Washington was the employment of wire mosquito netting for giving a very light shade. The netting was tacked on light frames about the size of sash which were used over plants in outside frames.

BEGONIAS.

Rex fine assortment. \$5 00
Rex Lucy Closson. 10 00
Listri or Diadem. 6 00
Argentea Guttata. 4 00
Metalica, 2½ in. 4 00
3½ in. 8 00
Hydrangeas, Thos. Hogg, Okla. 2½ in. . . . 4 00
Red branched 2½ in. 6 00

Send for list of field grown Carnations and Violets.
I. N. KRAMER & SON. MARION IOWA.

Carnations for Winter Flowering

BUTTERCUP, and all leading kinds. Established in pots. Roots kept intact. No risk in shipping. Write for prices including expressage.

A. S. MacBEAN, Lakewood. N. J.

CYCLAMENS.

Strong plants for potting on.

\$7.00.....PER HUNDRED.
\$60.00.....PER THOUSAND.

DAVID ALLAN, Mt. Auburn, Mass.

Chrysanthemums.

2½-inch pots, 20 leading sorts for cut flowers, \$3.0 per 100. The same, 3½-inch pots, \$4.00.

CYCLAMEN PERIJOUM GIGANTEUM. assorted colors, 2½-inch pots, \$6.00 per 100. Same from 3½-inch pots, \$8.00 per 100.

Address J. G. Burrow,
FISHKILL, N Y

CARNATIONS.

HECTOR, TIDAL WAVE, SILVER SPRAY
Strong plants, \$6.00 and \$8.00 per 100; \$24.00 and \$35.00 per 1000, cash.

J. F. STICKEL & SONS, North Cambridge, Mass.

250 CALLAS, All flowering roots, dorm-
mant. \$5.00 per 100, cash
with order. 25 at 100 rate.

W. A. LEE, Burlington, Vt.

PANSIES.

Pansies are all sold un'til the latter part of September; expect to have them then by the 100,000. Price, free delivery, 75 cts. per 100; \$3 per 500. You to pay express, \$5 per 1000.

CARNATIONS.

My Carnations are looking extra good this season. When you think about Carnations, think about me. Write and see what I can do for you.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS. VIOLETS.

20,000 fine, stocky, field grown plants

ORANGE BLOSSOM.	\$10 00
MAY FLOWER, fine fancy.	7 00
SNOW BIRD, white.	5 00
WHITE WINGS.	5 00
WEST END, pink.	5 00
TIDAL WAVE.	6 00
GRACE WILDER.	6 00
HINZE'S WHITE, extra fine stock.	5 00
LIZZIE MCGOWAN.	6 00
MARIE LOUINE VIOLETS.	8 00

The above all fine healthy plants.

ADDRESS E. B. JENNINGS,
SOUTHPORT, CONN.
CARNATION, VIOLET AND PANSY GROWER.

CARNATIONS

30,000 field grown plants. Stock fine,
healthy, bushy plants.

Hinze's White.	Per 100
Orange Blossom.	\$ 5.00
May Flower.	10 00
Snow Bird.	6 00
Lizzie McGowan.	6 00
Whiteflower.	6 00
White Wings.	5 00

Fine strain of Pansies, \$5.00 per 100.
500 Marie Louise Violets, \$8.00 per 100. Extra fine plants, free from disease.

Address GEO. B. WHITEHEAD,
LOCK BOX 116, GREEN'S FARMS, CONN.

CARNATIONS

40,000 plants of the new and standard
varieties. \$6 per 100 and upwards.

Send for price list.

Geo. Hancock,
GRAND HAVEN, MICH.

CARNATIONS

Strong plants, \$8 00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc., etc.
BOUVARDIAS Pres. Cleveland, Davidson's, Pres.
Garfield, Bridal Bouquet, \$9.00 per 100
PRIMROSES, 2½-inch pots, \$4.00 per 100.

WM A. BOCK, North Cambridge, Mass.

CARNATIONS

Field grown plants, \$6 & \$7 per 100.

GRACE WILDER, SILVER SPRAY,
HECTOR, ETC.

GEO. E. BUXTON, Nashua, N. H.

Mention American Florist.

NOTICE.

Our roses are all sold.

We are now booking orders for Field
Grown Carnations, of which we have
about 50,000 plants. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

FIELD GROWN CARNATIONS,

READY SEPT. 15
of the following varieties:

HINZE'S WHITE, SILVER SPRAY, PORTIA,
AND GRACE WILDER.

J. A. TRACHT & SON, Galion, Ohio.

Big Pansies.

You can't miss it with the GIANT
MARKET STRAIN (Zirngiebel's).
It is superb. Stocky seedlings 75c.
per 100; \$5 per 1000. Strong trans-
planted plants ready Sept. 25, \$1.25
per 100; \$10 per 1000. Send your
orders NOW.

ALEX. McBRIDE, Alplaus, N. Y.

PANSY SEED.

The Jennings strain of large-flowering and fancy
Pansies. You want the strain of Pansies if you
want the best. Stock all carefully grown by myself,
and first-class in every respect. To all my old
patrons, will say they will find a decided improve-
ment from last year.

Finest mixed, all colors, pkt. 25c., 50c. and 1 each.
Ounce, \$1.00; 3 or more ounces, \$5.00 per ounce.
Large yellow, black eye and pure white, in sepa-
rate pkts. 5 c. and \$1.00 each, free by mail.

Pansy plants ready Sept. 1, 60c. per 100; \$5 per 1000

E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER,
LOCK BOX 234, SOUTHPORT, CONN.

Mention American Florist

PANSIES.

C'STIER, BUGNOT and ODDER STRAINS,
which for size, form, substance and beautiful color-
ing are unrivaled. End raised by the best judges in
Europe and America. From imported seed, and
warranted genuine. Strong plants Sept. 1st, by
mail, \$2.00 per 100; \$18.00 per 1000.

Splendid English, all colors, very fine, assorted,
75 cents per 100; \$5.00 per 1000.

F. A. BALLER,
BLOOMINGTON, ILL.

APPLE GERANIUM SEED, fresh seed, just
received, per 100 seed, 25c; 1000 seeds \$1.25

CYCLAMEN. We have an extra fine set, also
Cyclamen Persicuin, finest mixed, ¼ ounce,
\$1.00; ½ oz., 25c.

Emperor William, dark crimson, 50 seeds, 25c.
Giganteum Album, Mont Blanc, pure white, 50
seeds, 50c.

Deep crimson, very large, 51 seeds, 5c.
Atripurpureum, flowers large a deep red, 50
seeds, 50c.

Sanspareille, new, blood red, 20 seeds, 50c.

Giant Flowered Varieties, extra choice mixed, 50
seeds, 50c.; ¼ ounce, \$2.00.

J. C. VAUGHAN,
12 Barclay street, 161 W. Washington St.,
New York, CHICAGO.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such
as Apple, Pear, Myrobalan Plum, Mahsieb and Maz-
zard Cherry, Angers Quince, Small Evergreens, For-
est Trees, Ornamental Shrubs, Roses, etc. The
largest stock in the country. Prices very low.
Packing secured. Catalogue free. Send for
quotations before placing your orders elsewhere.
Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,
Nursery & Greenhouses: 363 to 312 Wayne St.,
SAN FRANCISCO, CAL.

Special Offer to American Trade

LOUIS DE SMET,

NURSERYMAN, GHENT, BELGIUM.

Offer as Specialities:
Palms, Azaleas, Arbutus exelsa (thou-
sands), Bay Trees, Tuberosa Begonias,
Gloxinias, New Trade List on application.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, American Beauty, Perles, Duchess of Albany, La France, Niphotos, in 2 and 4 inch. Gontier, Mme. Hoste, Meteor, C. Mermet, Wootton, Bride, Bon Silene in 2 and 3 inch.

PRICES GIVEN ON APPLICATION.
A few fine Hybrids and Everblooms left.

PALMS.

Latania Borbonica, fine large plants at \$4.00 and \$6.00 each. A few left at \$7.00, \$15.00 and \$20.00 per 100.

We will be pleased to see our friends that are passing through the city at any time. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

HARDY TWO YEAR OWN ROOT ROSES.

From open ground. Price, plants two to four feet high,

OUR SELECTION, - \$100 per 1000
BUYERS " - 120 "
CLIMBING ROSES; - 80 "

TREE CINNAMON STOCKS.

HARDY SORTS. ROSES.

A VERY FINE LOT, INCLUDING THE BEST HARDY SORTS.

PRICE, plants from open ground, ready for shipment Oct. 1st, \$100 per 100.

Plants in 10-inch pots, for immediate shipment, \$15.00 per dozen.

Address **W. S. LITTLE & CO.,**
COMMERCIAL NURSERIES, Rochester, N. Y.

FOR SALE: Good healthy stock
We need room and money and the stock must go.

ROSES.

400 Perles, 2½-inch pots.....	Per 100
15 Brides, 4-inch.....	\$ 3.50
125 Brides, 2½-inch pots.....	2.50
350 Mermets, 3-inch pots.....	4.00
250 Mermets, 2½-inch pots.....	3.00
100 Mermets, 2-inch pots.....	2.50
125 Huste, 4-inch.....	4.00
250 Villa Fugler, 3½-inch pots.....	3.00
150 Mme. Watteville, 2½-inch pots.....	3.00
200 Mme. Cusin, 2½-inch pots.....	3.00
150 La France, 3½-inch pots.....	3.50
Canna Mme. Crozy.....	\$4.00 per doz.

W. W. GOLES, Kokomo, Ind.

Roses for Forcing.

500 American Beauty, from 4-in. pots.....	Per 100
100 La France, from 4 & 5-in. pots.....	\$3.00
Strong and healthy stock, the 600 for \$40.	9.00

JOHN B. GOETZ,

2165 Mackinaw St., SAGINAW, (West Side), MICH.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,

STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 300, 1 year seedlings.
10,000 plants, extra choice 250, 1 year seedlings.
1000 plants, 1st choice, straw thick, 128, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 118, 1 yr.
Cash with order. Send via Bremen Lloyd.

THE ATTENTION OF FLORISTS and others is invited to our immense stock of FIELD GROWN HYBRID PERPETUAL ROSES for FORCING,

Ready for Shipment October 1st.

The plants are principally 1 year budded low on Manetti, all of our own growing (which are superior to the imported) and embrace the best kinds suitable for the purpose. We have also a fine lot of Climbers and Mosses. Parties desiring particular varieties should send in their orders early as possible. Prices compare favorably with those of European growers.

CORRESPONDENCE SOLICITED. ORDER EARLY. CATALOGUE FREE.

ELLWANGER & BARRY,

Mount Hope Nurseries,

ROCHESTER, N. Y.

ROSES FOR BEDDING.

We have some extra fine stock of Roses for bedding purposes.

	3-inch	4-inch		3-inch	4-inch
NIPHETOS.....	\$7.00	\$10.00	DUCHESS OF ALBANY.....	\$7.00	\$10.00
PAPA GONTIER.....	7.00	10.00	DUCHESS OF EDINBURGH.....	7.00	10.00
PERLES.....	7.00	10.00	MERMETS.....	7.00	10.00
WOOTTONS.....	8.00	12.00	BRIDES.....	7.00	10.00
LA FRANCE.....	7.00	10.00			

All grown from two-eyed cuttings. Extra fine, healthy stock.

We still have a large stock of 3 and 4-inch Roses.

We also have a fine lot of Papa Gontier in 3-in. pots, at \$5.00 per 100.

DIRECT ALL ORDERS TO

FOREST GLEN FLORAL COMPANY,

Forest Glen, Cook Co., Ill.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSES.

TEAS.....\$30.00 per 1000
HYBRIDS.....40.00 per 1000
Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

Mention American Florist.

ROSES.

1000 ALBANY.
1000 LA FRANCE.
1000 MERMET.

From 3 and 3½-inch pots, in fine condition, equal to 4-inch pot stock.
Price and samples on application.

NATHAN SMITH & SON, Adrian, Mich.

Mention American Florist.

SURPLUS STOCK OF ROSES.

Mermets, Brides, La France, Duchess of Albany, 3½ inch pots.....	Per 100
Spilax, 3-inch.....	\$ 6.00
Asparagus tenuissimus, 3-inch.....	4.00
	5.00

The above is all strong and healthy stock.

RAUSS BROS.,

220 Moran Street, DETROIT, MICH.

Roses.

MERMETS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN ANI, MME. CUSIN, WABAN, BON SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.
From 3-inch pots, \$8.00 per 100; \$25.00 per 1000.
2½-in. pots, \$5.00 per 100; \$45.00 per 1000.

CARNATIONS.

Strong, healthy, field grown plants.
Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Portia, Mrs. Fisher, Hector Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$75.00 per 1000.
2nd size, \$6.00 per 100; \$50.00 per 1000.

PRITAN, best new white.

GOLDEN TRIUMPH, Yellow.

AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.

VIOLETS.

MARIE LOUISE and SWANLEY WHITE.

1st size, \$8.00 per 100; \$75.00 per 1000.
2nd size, \$6.00 per 100; \$50.00 per 1000.
3rd size, \$5.00 per 100; \$40.00 per 1000.
Send for price list.

WOOD BROTHERS,

Fishkill, N. Y.

Mention American Florist.

ROSES.

PERLE, 2½-inch, fine.....	Per 100
SUNSET, 2½-inch, fine.....	\$ 5.00
C. SOUPERT, 2½-inch, fine.....	5.00
MME. P. GUILLOT, 2½-inch, fine.....	8.00
AM. BEAUTY, 3½-inch.....	14.00

J. C. VAUGHAN,

P. O. Box 688.

CHICAGO.

News Notes.

WARREN, OHIO.—Geo. Gaskill has built two new houses, 121x20 for roses and smilax.

WILTON, IOWA.—John Beinfeld, who makes a specialty of pansies, is erecting a new house 20x40.

MARION, IND.—Mrs. Ida M. Fravell has built four new houses, 20x112 each, put up in first-class style.

HOLYOKE, MASS.—The Horticultural Society has decided to hold a chrysanthemum show next November.

SOUTH EASTON, PA.—Hiram Kleinhaus is building two new houses, each 16x80, to be heated by hot water.

HOUSTON, TEXAS.—At a recent reception the rooms were decorated with stalks of sunflowers and hollyhocks in bloom.

LAFAYETTE, IND.—Fred Dorner is building several new houses, and will arrange to heat his entire plant by steam next winter.

FLORAL PARK, N. Y.—John Lewis Childs donated a car load of gladioli flowers to the Long Branch Flower Festival, August 22.

DETROIT, MICH.—Mr. T. S. Balsley has turned over to his sons the business of the Detroit Flower Pot Manufactory, and the firm style will hereafter be T. S. Balsley's Sons.

FORT WAYNE, IND.—Geo. Doswell has torn down all his old houses and built new ones, putting in all latest improvements. The houses are heated by steam, part overhead and part below the benches.

JANESVILLE, WIS.—Three houses, consisting of rose house, carnation house, and house for general plants, are being erected here by the firm of Long & Hodson. Both members of the firm are feminine.

WINNIPEG, MAN.—Some important errors were made in the report of the Winnipeg exhibition. Mr. Richard Alston won twelve first prizes instead of one as reported, taking most of the leading prizes.

RICHMOND, IND.—Fulle Bros. have started into business here with three new houses, having a total of about 3,000 or 4,000 feet of glass. One of the brothers was formerly with Gause & Bissell and the other with Hill & Co.

RIPON, WIS.—C. H. Hamilton, whose funeral took place here August 18, was widely known in this part of the state during its early settlement. In addition to his horticultural work he was for many years a Methodist clergyman.

PEORIA, ILL.—Cole Bros. are adding about 5,000 feet of new glass to their establishment, to be devoted mainly to roses and carnations. James C. Murray is building five new houses about 20x90 each, mainly for cut flowers. Spring trade was excellent.

LOS ANGELES, CAL.—The Southern Californian Horticultural Commissioners have passed a resolution declaring that nurseries in all the six southern counties of the state are infested with insect pests, and demanding that the trees be dipped or fumigated before removal from the nursery. This resolution has caused great indignation among the nurserymen.

PALMS AND OTHER DECORATIVE PLANTS

The season is now approaching when large Palms and choice Decorative Plants will be needed. As they will be very scarce this season, it will be to your advantage to **SECURE** your supply at an early date.

PLEASE CALL AND EXAMINE OUR STOCK, after which we will be happy to book your orders for immediate shipment, or at any other date desired.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

LAING'S Tuberous BEGONIAS.

BEST IN EXISTENCE.

LISTS FREE.

BEGONIAS, GLOXINIAS, GALADIVMS, GLIVIAS.

JOHN LAING & SONS

Beg to offer their Immense and Superior Stocks of above by the 100, 1000 or 10,000. Full particulars and special catalogues mailed free.

Seed, Plant, Bulb Merchants, Etc.,

FOREST HILL, LONDON, ENGLAND.

MUMS.

Good varieties from 2½-inch pots, \$2 25 per 100.

NOVELTIES OF '92.

MRS. E. D. ADAMS, ROSLYN.
GEO. W. CHILDS, W. A. MANDA,
fine plants from 2½-in. pots, 25c. each; \$2.50 per doz.
3½-in. pots, 35c. each; \$3.50 per doz

DOUBLE SWEET ALYSIMUM,

from 2½-inch pots, \$2.50 per 100.

STEVIA, very stocky plants,

from 2½-inch pots, \$2.00 per 100.

from 3½-inch pots, \$5.00 per 100.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

PALMS.

KENTIA BELMOREANA and KENTIA FORSTERIANA,
in 3-inch pots, VERY FINE PLANTS,
\$50.00 per 100.

EDWIN LONSDALE, Florist,

Chestnut Hill, PHILADELPHIA, PA

Money Order Office, Station "H".
Mention American Florist.

ORCHIDS.

The finest stock in the WORLD. Nearly 50
acres devoted to their culture.

SANDER'S,

**ST. ALBANS,
ENGLAND.**

Thirty minutes from London.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854. **Govanstown, Md.**

PRICE LIST FREE.

1,000,000 CANE STAKES

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT
BLOOMING VARIETIES.

All the newest and choicest in cultivation. Catalogues free. Special trade rate.

WM. TUCKER, Dongan Hills, S. I., N. Y.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

1 VARIETIES.

Send for wholesale price list of all kinds of hardy
ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

AUG. TOEFFAERT,

GHEENT, BELGIUM,

**Palms, Azalea Indica,
TUBEROUS BEGONIAS.**

TRADE LIST ON APPLICATION.

JULES DE COCK, NURSERYMAN,

Ledeberg, Ghent, Belgium,

offers ARAUCARIAS, ASPIDISTRA, AZALEA INDICA,
DRACENAS, PALMS LAURUS TINUS and NOBILIS,
with crowns or pyramids, SPIRÆA JAPONICA,
and AUR. RET, all by the thousand. Packing
free for cash with order. Price list on application

FOR SALE.

SOME FINE ORCHIDS

Apply to **FRED STARR,**
at St. Ives Park Farm, 1 mile from Mt. Clare, on
the St. Paul R. R., ½ mile from Galewood, 2 miles
north of Oak Park, Cook Co. Ill., on Grand Ave
REASONABLE PRICES.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORIST'S, NURSERYMEN'S AND SEEDS-
MEN'S AGENTS.

For the following—

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seeds-
man, Haarlem, Holland. Choice Dutch
Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen,
Issy, France. Roses, Fruit and Forest
stocks.

V. LEMOINE & SONS, Florists, Nancy,
France. New varieties of Plants and Bulbs a
specialty, etc.

ERNST RIEMSCHEIDER, Florist and Seeds-
man, Altona, Germany. Berlin Lily of the
Valley a specialty.

G. A. VANDER GOOT, Nurseryman, Elst,
Netherlands. Fruit stocks, etc.

THE TOTTENHAM NURSERIES, Ltd.,
Deenswaard, Netherlands. Managing Di-
rectors: A. M. C. Jongkindt Coninck, A. M. C.
Vander Elst.

EDW. VAN COPPENOLLE, Nurseryman,
Ghent, Belgium. Established 1850. Large cul-
ture of Arbutus, Azaleas, Dracenas, Laurus
nobilis, Palms, Rhododendrons, etc.

Catalogues (mention which) free on application
when received for distribution.
All orders for these houses should be plainly
written and addressed to us.

Watch this Space

for what we have in the
near future.

S. O. STREBY,

Box 77. UPPER SANDUSKY, O.

PRIMROSES.

Plants now ready for 3-inch pots. Twelve
sorts; flowers all fringed, large,
and brilliant colors.

Price for the single, per 100 plants.....\$ 2.50
" " " 100 plants..... 2.40
" " double (white and red) per 100..... 4.00

We send additional plants with each order to pay
good part of the express charges.

Remittances may be made by R. P. O. on our P. O.

Address **HENRY S. BUFF & SONS,**
Shirburntown, Pa.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell.
The very best Ornamental shrub. It will make you money and give the best
of satisfaction to your customers. Millions can be sold to planters if it is
brought properly to their attention.

**Largest stock in America. Splendid plants. Cheaper and
better than Imported. See prices below:**

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 " 70.00 "

**Packed in best manner and delivered to Express or R. R.
free of charge on receipt of proper remittance.**

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

Established 1835.

ROGERS NURSERIES.

Oldest in the State.

"HAVE YOU A BEARD?"

I mean Turkey Beard (*Xerophyllum asphodeloides*). This is a novelty among hardy perennials which you can
sell in quantity. Orders booked now for immediate or fall delivery, \$2.50 per 100. (Tentative to suit purchasers, or
12 1st, upon satisfactory reference). Don't forget our stock of **Strawberries, Asparagus, Etc.**

Isaac C. Rogers.

ROGERS NURSERIES, MOORESTOWN, N. J.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell
for cash, and freight prepaid in Yokohama,
to every one who will favor him with an
order. Catalogues on application.

The freight has to be paid in U. S. gold
exchange; the goods are, however, paid for
in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents
Mexican silver dollars in Yokohama, freight to
San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex.
1,000 pounds, @ 7 cents Mex.

PECTOGYNE VARIEGATA, 30 cts. per 8-inch pot.

RHAPIS FLABELLIFORMIS, 25 cts. per shoot.

For **LILY BULBS**, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

**136 & 138 West 24th Street,
STATION E. NEW YORK.**

SMILAX.

Strong plants, from 3½-in. pots, \$3 per 100
" " " 2½-in. pots, \$2 per 100

A. J. VREELAND,
200 West Side Ave., JERSEY CITY, N. J.

ADIANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade.
The reasons why because it is

Best for the grower:

1st. Because it can be grown successfully in a
greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under
the edge of a bench, and will last for several
years.

3rd. It requires no season of rest.

4th. It will stand watering with the hose and
fumigating with tobacco smoke.

Best for the Cut Flower man:

1st. Because of its density and dark green color;
six fronds will go as far as twelve Cuneatum;
2nd. Because it will keep in perfect condition
for from four to six weeks in the ice box.

Because it lasts three times as long as Cuneatum.
Customers ordering in our store almost
invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it
has many aliases. Price, strong plants, \$8 per 100.

Owing to the heavy demand, our stock of this
most desirable Fern, ready for immediate ship-
ment, is getting low. In order to accommodate
those who wish to make plantings later in the
season, we will book orders now for delivery any
time till July 1st. This will give florists who are
now busy with their spring work an opportunity
to secure their stock and have it delivered at a
time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,
use our **FLORISTS' GREEN THREADS.**

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.

— WHITE FOR SAMPLES AND PRICES. —

Cincinnati.

One by one the florists returned home, feeling hale and hearty and well repaid for their trip to the Capital.

Business, both wholesale and retail, has been very dull, only a little funeral work now and then, not near enough to keep our people respectably busy. The show windows are looking dull and bare, there being no roses displayed. The wholesale prices are the same as they have been for the last four weeks.

The hand of affliction has again been heavily laid on Mr. Chas. A. Jones, Sr., of Newport. Only six weeks ago his son Frank, 19 years of age, died suddenly after two or three days illness. A week after the funeral Mr. Jones was thrown from his wagon, severely injuring him. On August 18 another son, Craig, aged 31, died at his residence in Home City. He had been sick for some time and his death was not unexpected. Mr. Jones has the sympathy of his many friends.

Mr. Fred Ostertag, of St. Louis, was with us for a few days, enjoying himself in our little town.

Mr. Wm. Stichtenoth, Jr., of the Clifton Rose Company, has returned from an extended tour through Italy, Germany and Switzerland. E. G. GILLET.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the Florist. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

BIG! BIG! BIG! BIG WHAT? Big Daisy Snow Crest.

BIG plants, BIG roots, BIG leaves, BIG long stems, BIG flowers, BIG crop, BIG sales, BIG profits, BIG satisfaction all round. There will be a BIG lot wanted. Order early and get a BIG start and help supply the BIG demand. 25,000 now on hand, \$1.50 per doz.; \$10 per 100; \$80 per 1000.

200,000 would scarcely suffice to supply all who ought to have it with a few plants to start with. Remember when we are sold out we are done, there has been no substitute found yet for this Daisy. SNOW-FLAKE, good as it is, can not compare with it. A few hundred of the latter still on hand, \$1.50 per 100; \$12.00 per 1000.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

SHADE TREES.

I have a fine stock 11 Peas, Apples, Cherries, Quinces, Small Fruits, 30 kinds of Grapes.

8,000 Vilma, Norway and Sugar Maples, 8 to 16 ft.
10,000 Norway, Blue Spruce and Arbor Vitae, 2 to 10 ft.
1,000 Scotch and Austrian Pines 2 to 10 ft.
1,500 Purple leaved Beech, 2 to 7 ft.
700 Elm Chestnut, 10 to 12 ft.
500 Blood leaved Maples, 4 to 6 ft.
700 Birch, English and Cut leaved, 6 to 12 ft.
500 Oaks, four kinds, 6 to 10 ft.
2,000 White Pines, 3 to 6 ft.
1,000 Tree Ferns, extra strong.
500 Cal. Privet 2 to 4 ft.

Best of facilities for shipping—two Railroads and Sound steamers to New York.
Call on or address

NORWICH NURSERIES,

Stephen Crane, Prop. NORWICH, CONN.
Established 1870.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's crop of the choice Sweet Pea varieties, named and mixed, that we grow. Please send for trade list.

FOR IMMEDIATE ACCEPTANCE WE OFFER

Calla Lily Bulbs, 4 to 5 inches in circumference, \$30.00 per 1000. Prices on larger sizes on application.
Freesia refracta alba, good flowering bulbs, \$3.00 per 1000.
Marie Louise Violets, strong runners, free from disease, \$20.00 per 1000.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

G. BENARD, Orleans, France.

Established 1849.

ROSES AND YOUNG PLANTS A SPECIALTY.

Particular offer of fine plants in large quantities.

ROSES ON OWN ROOTS, HYBRID, HORTON, ETC., such as	Per 1000
La France, Ulrich bruner, Captain Christy, etc.	\$ 40.00
On own roots, or grafted on Dog rose, Tea and Noisette, such as Marechal Niel, Marie Van Houtte, Catherine Mermel, etc.	55 00
Hermosa, Common Bengal, etc., 1st choice.	17 50
On own roots, extra choice.	25.00
Cramoisi-Superieur, Eugene de Beauharnais, etc., 1st choice.	19 00
Extra choice.	31 00
Madame Laurette de Messimy.	40 00
Mile. Augustine Guineuseur (or White flowering France).	60 00
Climbing Roses, assorted, my choice of varieties, such as Ruga, Felicite, Perpetue, etc.	15.00
AMPELOPSIS VEITCHII, 1 year transplanted.	4.50
RHUS COTINUS, 1 year transplanted.	3.60
WHITE MULBERRY, very fine, 2 years transplanted.	2.50
DEUTZIA GRACILIS, 2 years.	3.50
HYDRANGEA PANICULATA GRANDIFLORA, 2 years.	13.00
OLEMATA VITICOLA, 2 years.	4.00
LILAC CHARLES X, 2 years grafted.	22.00
Fruit Tree Stocks in large quantities: Apple, Cherry, Plum, Quince, etc. For further information apply to	
C. RAOUX, P. O. Box 2938, 296 Pearl Street, NEW YORK,	
or E. BENARD, P. O. Box 620, SAN DIEGO, CAL.,	
Sole Agents for the United States and Canada.	
General Catalogue to be issued in September, will be sent free to all applicants.	

No More Leaky Sky Lights
Or Shipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER

Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 600 rights and 500 lefts. We also make a tool for driving the points. Price, 55c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seedsman, and Florist Supply Stores in the country. If you do not find them, send post for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. O. OUWERKERK,

P. O. Box 1845. NEW YORK.

Always mention the AMERICAN FLORIST when writing to advertisers

ARTISTIC COLOR WORK.

The Orcutt
COMPY

LITHOGRAPHERS,

48-50 WABASH AVENUE,
W. B. ORCUTT, Gen'l Mgr. CHICAGO.

FIRST-CLASS WORK.
NO FANCY PRICES.
GIVE US A TRIAL.

JULIUS TESMER & CO.,
Manufacturers of all kinds of

Ice Boxes

ESPECIALLY FOR FLORISTS.
937 to 941 N. Western Ave., CHICAGO.
— Telephone West 670. —

GOOD, CLEAN
SPHAGNUM & MOSS,

\$1.00 PER BARREL.

Or in bulk at \$12.00 per 100 cubic feet.

WM. F. BASSETT & SON, Hammon, N. J.

BUTTED GLASS SASH BARS.

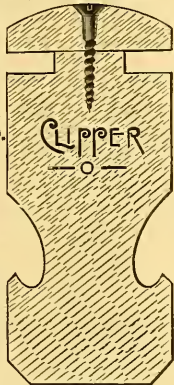
Does away with all puttying and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.

Shall we book your order next?
Enclose 2c. stamp for sample

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgrt. LOCKLAND, OHIO.



CLEAR
CYPRESS
SASH
BARS

CLEAR
CYPRESS
SASH
BARS

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.
Address all correspondence to Music Hall Place.
Manufacture the BEST LETTERS in the MARKET.
Sizes 1 1/4-inch and 2-inch. \$20 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Beyerdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 38 Warren St., Syracuse, N. Y.; A. C. Kendal, 116 Ontario St., Cleveland, O.; B. H. Hunt, 79 Lake St., Chicago; W. A. Hanf & Co., 132 Olive St., St. Louis, Mo.; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Knehn, St. Louis.
J. A. Simmers, Toronto, Ont., Agt. for Canada.



FRUIT EVAPORATOR

THE ZIMMERMAN
The Standard Machine
Different sizes and prices. Illustrated Catalogue free.
THE BLYMER IRON WORKS CO., Cincinnati, O.

PLUMS.	GRAPES.	RASPBERRIES.	STRAWBERRIES.	CURRENTS.	PEACHES.	CHERRIES.	TULIPS.	PEARS.

FINE · LITHOGRAPHIC · WORK · IN · COLORS.

· · SEED BAGS, · ·

≠ NURSERYMEN'S · PLATES, ≠

CATALOGUE COVERS,

STECHER LITHO. Co., ROCHESTER, N. Y.

LITTLE'S ANTIPEST.

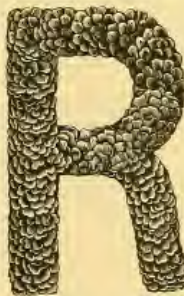
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.



W. C. KRICK'S
PATENT

Florists' Letters, Etc.
Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3 00 per 100.
Postage, 15c. per 100.
Before purchasing send for free sample and Catalogue and samples with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAY-RESDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; A. C. ROLKER & Sons, N. Y.; ED. S. SCHMIDT, Washington, D. C.; JAMES VICK'S SONS, Richmond, N. Y.; T. W. WOOD & Sons, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

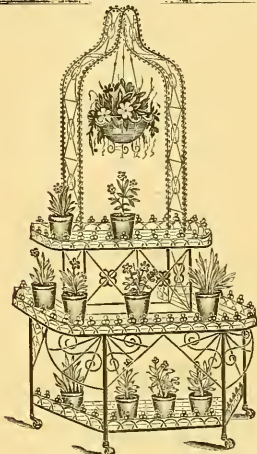
J. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

WIRE FLOWER POT STANDS



Copyrighted.

No. 4324. Flower Stand.
Send for Catalogue showing over 30 different designs with our new style CLOVER LEAF BORDER.

Address **BARBEE WIRE AND IRON WORKS,**
44 & 46 Dearborn St., CHICAGO.

····· OUR ·····

HALF-TONE *

* ENGRAVINGS

····· ARE MADE BY ·····

J. MANZ & CO., Engravers,
107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself.
Publishers AMERICAN FLORIST.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES, 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, shrubs, Roses, Vines, small FRUITS, Hedge Plants, FRUIT and FOREST TREES, SPRINGING, Potted Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
SUCCESSORS TO RIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Foreign Notes.

THE Holland Florists' Society held its annual meeting at Appeldoorn, July 28. During the day a visit was made to the country place of the Queen of Holland. In the evening the members enjoyed an excellent supper at which many happy speeches were made. August 4 there was an exhibition of roses at Leiden. The third national chrysanthemum show will be held in Amsterdam November 10-14.

ALEX. DICKSON & SONS, Belfast, Ireland, have been appointed rose growers to the Queen, which in Great Britain is a distinction greatly esteemed.

A Floral Clock.

There has been on exhibition in Paris this summer a clock, consisting of an immense bed of dwarf variegated plants, representing a dial, 30 feet in diameter, with the dots and figures of a clock face, enclosed in an ornamental frame. Over the dial move two hands, consisting of wooden rods, decorated with flowers, which are propelled by machinery enclosed in a case, buried in the center of the bed, and driven by a water motor. The clock is said to keep reasonably good time.

T. M. CLARK.

Boston.

A Query.

Will someone tell us the best thing to prevent greenhouse gutters from leaking? Paint was used last year, but did not prove satisfactory.

BUSCH & PURZNER.

Jefferson City, Mo.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION. Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress, from bottom gutter up is my specialty.

Lyman Felheim,
ERIE PA.

YOU
Find the Powder,
SCOLLAY
Sends the
GUN

By Mail for \$1.25.

All florists and amateurs should try the newly invented rubber
Insect Powder Bulb.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Please mention American Florist.



STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

Randolph Ave. & Union St., Jersey City, N. J.

713 & 715 Wharton St., Philadelphia, Pa



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER HOT-AIR
OR **ERICSSON PUMPING ENGINE**

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.

STANDARD POTS.

Price list for any number.

2 -inch.	per 1000,	\$3.25	3-inch.	per 100,	\$1.33
2 1/4 "	"	3.50	6 "	"	2.20
2 1/2 "	"	4.00	7 "	"	2.50
3 "	"	5.00	8 "	"	3.00
3 1/2 "	"	7.25	9 "	"	3.00
4 "	"	9.00	10 "	"	10.00

Low freight rates to all points. Terms cash, 1.0.0.

HILFINGER BROS., Fort Edward, N. Y.

Mention American Florist.

FLOWER POTS.

Standard Flower Pots, Machine Pots, Hand-Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

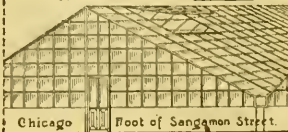
FIRST-CLASS GOODS. LOWEST PRICES.

Send for price list. Give us a trial. We will surely satisfy you.

BOWMANVILLE POTTERY,
Bowmanville, Chicago, Ill.

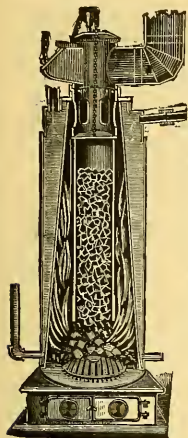
CARNATION CULTURE; BY
L. L. LAMBORN.
Third Edition, containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH CUTTING & ETC



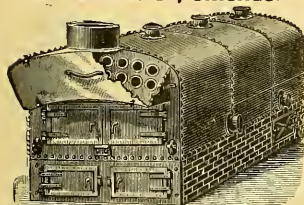
Chicago Foot of Sangamon Street.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

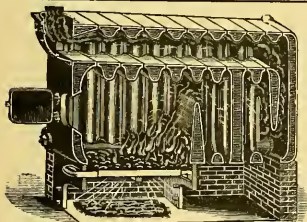


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, steel, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF

Window Glass
MUNCIE, IND.

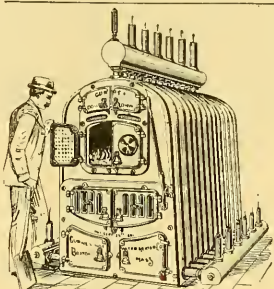
We make a Specialty of GLASS FOR HOT-HOUSES.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE LATEST AND BEST for heating GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling Agencies: New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

SMITH & WEBSTER,

MAKERS OF

GREENHOUSE PIPE,

FOR HOT WATER AND STEAM,

193 Lake Street, - CHICAGO, ILL.

Mention American Florist.

PERFECT DRAINAGE BENCH TILE.

Awarded HIGHEST PREMIUM
Wherever Exhibited.

Used by ALL leading growers and horticultural builders.

For circulars, etc., address

UPLAND GREENHOUSES.

W. P. WIGHT,

MADISON, N. J.



Save your Coal by using the
FLORIDA
HEATING APPARATUS
For Greenhouses
BEST IN THE WORLD.
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y. U. S. A.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

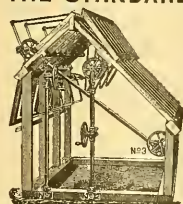
THE STANDARD Ventilating Machines

Received best awards
at

BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue
and prices.

E. HIPPARD,
Youngstown, O.



Mention American Florist.

Index to Advertisers.

Abel C & Co.	115	116	119
Allan David	116		
Haller F. A.	116		
Barbee Wire & Iron	116		
Wicks	121		
Barnard W W & Co.	115		
Hassett Wm F & Son.	121		
Beyersdorfer H & Co.	121		
Hay State Hdw Co.	121		
Behand G.	121		
Benson H H & Co.	121		
Blymyer Iron Wks.	121		
Black Wm A.	116		
Boschman Louis.	115		
Bonsall Jos E & Son.	113		
Boston Letter Co.	121		
Brownville Pottery.	122		
Breckinridge & Co.	122		
Brouer & Kitcher	114		
Burns & Raynor.	113		
Burrow J C.	116		
Buxton Geo B.	121		
Carman R W.	121		
Carmondy J D.	122		
Chitty H F.	122		
Coles W W.	117		
Craze Stephen.	120		
Ducko H A.	115		
De Cock Jules.	118		
De Lamater Iron Wks.	122		
De Smet L.	116		
Detroit Heating and			
Lighting Co.	124		
Diesch A & Co.	122		
Dillon J L.	116		
Dodge & Conard Co.	119		
Dreer H A.	114		
Fannes H W & Co.	115		
Fekhardt Theo.	115		
Elliot W H.	115		
Elison Wm.	115		
Ellwanger & Barry.	117		
Felchelm Lyman.	122		
Feld S H.	116		
Florists Hall Ass'n.	111		
Forest Glen Floral Co.	111		
Gardner J & Co.	119		
Gibson J C.	120		
Gietz John B.	117		
Gonzalez & Co.	116		
Gursey Heater Co.	125		
Hall Ass'n.	121		
Hancock Geo.	116		
Hart James.	113		
Hartford & Nichols.	114		
Herr Albert M.	116		
Hews A H & Co.	122		
Hilfinger Bros.	122		
Hill E G & Co.	116		
Hilppard E.	121		
Hitchings & Co.	114		
Hoffmeyer C K.	124		
Hooker H M & Co.	125		
Huiseloch Bros.	125		
Hunt E H.	113		
Hunt M A.	117		
Hunter & Furdy.	113		
Irvine John Co.	119		
Jennings F B.	115		
Joosten C H.	115		
Kennicut Bros.	115		
Kramer I & Son.	121		
Krick W C.	121		
Kroeschell Bros.	123		
Kuehn C A.	113		
Laird John & Sons.	118		
La Roche & Stahl.	113		
Lee W A.	113		
Little W S & Co.	117		
Lockland Lumber Co.	121		
Long Dan'l B.	113		

Lonsdale Edwin	118
McBride Alex	116
McCarthy N F & Co.	113
McFarland J H.	114
McFarland J H Co.	121
McKellar & Sperry	113
Maclean A S.	121
Maria & Co.	121
Marring Hart & Co.	123
Marschall & Co.	121
Meyer John C & Co.	119
Michael Plant & Seed Co.	119
Miller Geo W.	113
Moffatt G J.	115
Moninger Jno C.	121
Moore Samuel C.	113
Moore Frank L.	117
Mullen Geo.	113
National Hot Water	
Heater Co.	124
Olson M.	113
Oswald Co. The	120
Onwerkerk T.	121
Peck & Subherland	113
Pierre & Coleman Co	122
Pennoek Sam'l S.	123
Phanix Nursery Co.	124
Pierre Butler & Pierce.	123
Pierston F R Co.	115
Pletcher & Maudsl.	113
Randall A L.	123
Rauou C.	127
Ramus Bros.	117
Reck John.	114
Reed & Keller.	121
Reinschneider Erns.	115
Roberts D H.	123
Roehrs Theo.	119
Rogers Nurseries.	119
Rolker A & Sons.	119
Rupp H S & Sons.	119
Sander & Co.	118
Schultz F W O & Co.	114
Schultze Bros.	117
Schultz Jacob.	117
Schuster J Henry.	114
Sodlay John A.	122
Sobrie P & Sons.	116
Sorbin W F.	113
Sherwood Hall Np.	120
Siebrecht & Wadley.	119
Situations, wants.	112
Smith C A Floral Co.	113
Smith Nathan & Son	115
Smith & Webster.	123
Somster Geo.	114
Starr Fred.	118
Stecher Luthr Co.	121
Stelzig Louis.	116
Stickel J F & Sons.	116
Stieby S G & Co.	120
Sunderbruch H L.	113
Tesner Julius & Co.	113
Toeffaert Aug.	115
Tracht J A & Son.	116
Tricker Wm.	113
Van Tubergen C G.	115
Vaughan C.	115
Vase, Fred.	116
Vreeland A J.	114
Weathered Thos W.	124
Wick Bros.	113
Whilldin Pot Co.	122
Whitehead Geo B.	116
Wiglit W P.	121
Wilks S Mfg Co.	123
Whitson Flower Ks.	112
Wolt L Mfg Co.	124
Wood Bros.	117
Young Bros.	113

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

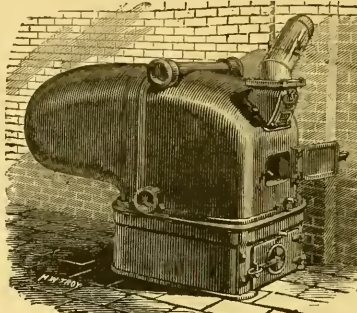
FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.



SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Thos. W. Weathered's Sons,

... GREENHOUSE ...

HEATING AND VENTILATING APPARATUS.

HORTICULTURAL BUILDERS.

244 Canal Street, NEW YORK.

Greenhouse Pipe and Fittings



Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

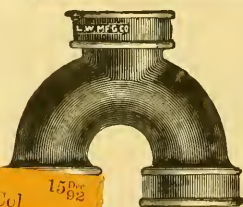
GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WULF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.



DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the FLORISTS and SEEDSMEN of the United States and Canada.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

THE GREAT FUEL SAVER

THE CELEBRATED

BELTON

ITS FIRE HOLDING
QUALITIES UNEQUALLED.

ESPECIALLY ADAPTING IT TO

GREENHOUSE HEATING.

DETROIT HEATING AND LIGHTING CO. SOLE MFRS.

Leeb and Wight Sls., DETROIT, MICH.
NEW YORK, 26 Liberty St.
BOSTON, 41 Pearl St.

The SPENCE HEATER

HOT WATER

FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

AGRICULTURAL COLLEGE

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfari Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, SEPTEMBER 8, 1892.

No. 223

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY
THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 97 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1893 are: Wm. E. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

American Rose Society	125
Rose Mme. Caroline Testout	126
Another rose enemy	126
Fancy caladiums, Plate I (illus)	127
Fancy caladiums	128
Philadelphia notes	128
The Columbian Exposition	128
Fancy caladiums, Plate II (illus)	129
Toronto	130
Philadelphia	130
Washington	131
Chicago	131
Cincinnati	131
St. Louis	131
Baltimore	134
The seed trade	136
San Francisco	136
Orchids in bloom	138
Not the highest score	138
Award at Washington	138
The bowling scores	138
Bulb growing in the south	140
Caring without pity	142
Piping	142



American Rose Society.

Since the close of the convention of the S. A. F. much interest has been manifested in the plans for forming a rose society by those who did not take part in the meetings which were held for the purpose of trying to organize such a society, and by others who are very much interested in the matter. The universal opinion, so far as I have ascertained, seems to be that it is useless to attempt to organize a rose society on any such basis as other auxiliary societies of the S. A. F. are formed. In other words, it is generally conceded that a considerable sum of money will be necessary to make such a society of any practical value and benefit. How and by what means this fund can best be obtained are matters for careful consideration; but it has been decided to send out a prospectus as quickly as it can be gotten ready to all who are known to be interested in this matter, and it is hoped that every one receiving the same will answer either for or against it as their own inclination may lead them to determine.

One of the principal reasons that the society could not be started in Washington was that the meetings were too informal. Again, many of our best people who would take the most active interest in such a society were not present. It has occurred to me—and several others also, I might say, to whom I have talked—that if it could be arranged to get say one hundred corporate members who would be ready and willing to advance the sum of one hundred dollars each for the purpose of establishing a fund to be invested as a sinking fund, or, in other words, as a reserve fund to be used for purposes that may be decided upon by an executive committee afterward to be chosen from said members, then to organize, duly elect officers, executive committee, etc., it would be the best course to adopt. We could then invite all others who are willing to do so to enter as corporate members, paying a like sum, and those who feel that they could not afford to pay such an amount of money could be admitted as associate members by paying the sum of five dollars per year. But it should be remarked here that there is no intention on the part of any one interested to exclude the members paying one hundred dollars each from paying their regular

yearly dues the same as the associate members.

Then, in the election of officers the corporate members might be entitled to elect two of their own number, viz.:—corporate members to serve on the executive committee; the associate members, or rather the association, which, of course, includes the associate and all other members, should be entitled to choose from the association two other members which they should have the privilege of voting for, one of whom would be the Vice President. This would give the charter or corporate members the voice and right to elect six members of the board of directors, and the association at large would have the privilege of electing four others for the same board, making their own choice and including the Vice President. These appear to be the most generally expressed views.

It must be borne in mind that no one going into this scheme can possibly go into with any view of making money out of it directly or indirectly. The main object of the association is to encourage, firstly the raising of new varieties in our own country. It is almost universally conceded that we have soil, climate and all other conditions necessary at our command. All we want is to stimulate some enthusiastic rosarians who have the time and means to put into the hybridizing and raising of improved varieties. Thus by securing a good sum of money as a reserve fund, in the very near future the association could offer very liberal premiums, one, two or three thousand dollars say, for a certain class of rose, whether it be for forcing for the cut flower trade, for general bedding purposes, as a climber, or for any other purpose which it might be decided by due deliberation of the board was the greatest desideratum. There is not the least doubt in the minds of those best informed on the subject that such a liberal offer would be the means of stimulating many of our enthusiastic amateurs as well as professionals, and probably it will be from the amateurs, who have more time to devote to this particular purpose than florists who have to work for their bread and butter every day of their lives, that such varieties will spring.

With the immense demand for finer roses of every class and description on this continent to-day it does seem rather strange when one looks into the subject that we have up to the present time had but very few who have given any time or thought to this subject—I mean the raising of new and improved varieties. Up to the present time the whole number of such men may be counted on the fingers of one hand. Why should this be so? The answer is simple; because our florists "are too busy," too much engrossed with their business to be able to devote the time necessary thereto; but, once give them a start, stimulate them by more

IN A RECENT LETTER to the FLORIST Mr. L. P. Worl, Birmingham, Ala., expresses regret at the lack of contributions from southern florists, and urges us to invite such communications. We very willingly reiterate the invitation we have often before extended to the florists of the south to make use of our columns. The FLORIST is for the whole trade, south as well as north, west as well as east, and we are glad to have communications on trade subjects from each and every section.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

liberal inducements than have ever been offered in this or any other country, and we shall have plenty who will not only go into the business for the sake of winning the dollars that may be behind it, but will go to work intelligently, as many of the European rosarians have done of recent years. Many will say, perhaps, the European rosarians have not gone into this for money. I do not profess to answer this either yes or no, but I do know that the idea of making money out of their produce is the incentive of many of the growers. As an evidence of this see the high prices for all the new varieties introduced here every year from Europe, and, what is the greatest drawback, ninety-nine per cent of them are entirely worthless for our purpose in this country in any way whatever. They are novelties only in name. Now, if we have them raised right under our own eyes we will have every opportunity of knowing before they are ever on the market whether they are suitable for our purpose or not.

The success which one or two who are engaged in the business already have achieved through their efforts should be a stimulus to make others "go and do likewise." There is no doubt that although the *Souvenir de Wootton* has been roundly abused in many sections of the country, still it is growing in favor steadily, and to Mr. Cook, of Baltimore, many of us are indebted for a really good thing. Others, I have no doubt, will follow in due course of time, but why should we wait the slow course of one or two raisers when by offering a just and suitable reward for their labors we can get one hundred where we now have one. Furthermore why should we spend the large sums of money that annually go from the pockets of florists in this country to Europe for worthless goods when better and finer material can be purchased at home for less money?

This is only one of the many things that such a society could do to advance and elevate the "Queen of Flowers." Some will say, possibly, the rose will not always remain in favor. My answer to them all is that she has held supreme her right for many decades, and will too, in all probability, for many decades yet to come.

The establishment of a head center, recognized not only in our own country, but all over the world, as virtually the tribunal before which *Queen Rosa* shall be tried, tested and adjudged, would in my estimation not only place us in a position where we could cater for new varieties in our own climate, but I very much doubt if the raisers of Europe would hesitate or refuse to send their new varieties to such a recognized association for trial to be tested. They might lose some of their pets by such proceedings, but if they had a real gem to offer us the sale for such a variety would be enhanced a thousand fold in one year from the time it was sent here, where it could be finally and practically tested in our own climate. This would be an immense gain not only to the large importer but to every amateur and florist in the country, and would certainly be worth a great deal more than the annual subscriptions that such a society would call for.

Again, the establishment of an experiment station where diseases could be thoroughly investigated and their cause and cure tested, would be of inestimable value to every grower, whether large or small, throughout the country.

All this and very much more are easily within the scope of such a society if money can only be procured to back it up. Nothing produces nothing, but the old

adage is just as applicable to day as it ever was—"It's money that makes the mare go." Without it the society would be practically worthless; with a liberal supply of it at its command it could do much for the benefit of every grower in the country.

A few years ago one of the leading nurseries of England asked me why in our country, where the rose is grown, particularly under glass, to a greater state of perfection than anywhere else in the world, such a society had not been formed. My answer was we had not been able to get enough of our practical men to think the same way. The bulk of us had been too busily engaged chasing the "almighty dollar" to think about anything further than the present moment. But we have come to a time now when we should do something more in this line. I doubt not many will look upon this matter with a different view, but if among your readers there are any who can suggest a better and more practical plan, I for one am perfectly willing to indorse the same, and I have no doubt there are many others of my associates in this matter who can also be convinced if there is a better plan offered. Certain it is the quicker the whole thing is ventilated, opinions expressed, and a definite plan of action adopted the quicker can we realize some fruits of our labors.

I have heard it said within the last two or three weeks that it looks somewhat selfish for the corporate members to want to control a majority of the board. I can not see it in that light. I can not see where the man advancing \$100 is any more selfish than the man who wants the benefits of the association for \$5. I can not see that it is any more selfish for the man contributing the \$100 to want to control the way in which it shall be spent than it is for a man to buy a certain amount of railroad stock because he is convinced that the right management is at the helm. Wherein does the man paying his \$100 down gain any more benefit from said association directly than any other member of the fraternity in the country? What benefits one benefits all. If a yellow mermet, for instance, is produced by the efforts of said society will not every grower be benefitted thereby? The man putting \$100 in has no better show to get anything out of this than the man who simply pays his yearly dues.

Another plan has been suggested and that is to form the society in the shape of a stock company, offering all members alike to take as many shares as they feel disposed. Those who feel they can only take one, which should be in the form of a yearly payment, shall be entitled to one vote, those feeling able and inclined to pay twenty five (\$25) to five votes, and so on. The greatest objection to this plan would be the complication it would cause the secretary, rendering it necessary for a roll call at every election, which, if the society should become a strong one, would entail a great amount of detail work.

I do not know whether my views will coincide with very many of your readers, but, as I suggested above, a practical discussion by those interested in the matter will eliminate many obstacles and help us to arrive at a definite conclusion as to the best course to pursue.

JOHN N. MAY.

Madame Caroline Testout.

Mr. Ernst Asmus certainly struck the keynote when he said he thought the above rose the best hybrid tea the French have sent out up to date. It is without

question a great acquisition. I have grown many varieties of roses, but have never seen one with so many good qualities as the above. It is somewhat in the style of *La France*, but a much more pleasing and cheerful pink; it has not the dull washy tint so often seen on the outside petals of *La France*, but retains the clear bright color from center to outside.

The flowers will average much larger than *La France*; it is a stronger grower and freer bloomer. I shall be very much mistaken in my prediction if we do not find within a few years that there are a thousand Testouts grown for every hundred of *La France*. I know I am making a broad assertion, as *La France* is one of the best roses we have for general purposes.

I planted 25 *Mme. C. Testout* last summer and after they had bloomed through November and December to January 15 I started to work up stock. At the present time (just one year from planting the original plants) I have raised over 2,500 Testouts, which I think is a conclusive proof of its strong growing qualities. I am growing more of this than any other one variety for next winter's cutting.

I was rather surprised to see that Mr. May classes this rose with *Cusin*. I do not think it bears any resemblance to this rose, any more than *Cusin* resembles *La France* or *Mrs. Jno. Laing*; the only resemblance I can see is its free blooming.

Kaiserin Augusta Victoria is another rose I tried last winter, which appears a valuable variety; it is a very large free blooming and fragrant white rose; growth and habit like *Mme. C. Testout*.

Eliza Fugier is a very free blooming small rose, but without improvement on *Niphotos*.

W. W. COLES.

Another Rose Enemy.

We have received from Messrs. Reinberg Bros., the rose growers of Bowmanville, Chicago, some rose foliage infested with a small white worm about 3-16 of an inch long that has been playing havoc with their roses this year.

We forwarded the specimens to Prof. Davis, of the Michigan Agricultural College, who writes:

"The white worms are the larvae of some fly unknown to me. It probably is very closely related to the Hessian fly of the wheat. As to remedies, there is probably nothing that will be entirely satisfactory after the maggot has gotten in between the petals. The larva must be prevented from entering and as the eggs are probably deposited on the calyx the young can be killed when they first commence feeding by the use of a solution of paris green. If it is thought dangerous it is probable that hellebore will answer the purpose. If this does not prove satisfactory I know of nothing from the present limited knowledge that will. Kerosene emulsion might work, but it is apt to injure those in bloom. Will try and rear the specimens sent and so learn more of them."

Messrs. Reinberg state that they have been using hellebore, but with apparently little effect. Have any other readers of the *FLORIST* been troubled with this little worm, which eats the foliage around the buds, and if so has a means of combatting it been discovered?

The American Rose Society.

All persons taking part in the organization proceedings at Washington, and also all persons interested in the organization



FANCY CALADIUMS. PLATE I.

Itaqui.
Sieboldii.
Mme. A. Bleu.

Max Kolb.
Unnamed.
Leplay.

Mme. Hardy.
Hätzer.
Belleymei.

of such a society, are requested to at once send their names to H. B. Beatty, Oil City, Pa., for draft of proposed constitution and by-laws. Those taking part at Washington will kindly say whether they desired to join as corporate or associate members.

Fancy Caladiums.

Fancy caladiums form a most useful group of plants for summer decoration in the conservatory, but while their attractions are always recognized they are not, in this country, grown as extensively as they deserve to be.

The characteristic leaves figured in our illustration are from the collection at Lincoln Park, Chicago, where they are admirably grown. Mr. Strombach starts them in February, the tubers being about the size of small potatoes. They are left entire instead of being cut to the several eyes; although more plants may be obtained by this latter system, if desired, they are much weaker than when the whole tuber is left to form one plant. They are started in clean sand in a cutting bed where there is a temperature of 75° to 80°. There is no risk of the tubers decaying if started in sand, while this is apt to occur when soil is used from the first. As soon as they are well started the tubers are potted in 3 or 4-inch pots, the soil used being rich black loam mixed with well rotted cow manure. Abundant drainage should be secured, as they need plenty of water; they may be syringed two or three times daily after potting, being kept in a stove temperature of 75° to 80°. When they are growing well they should receive frequent watering with liquid manure. They will require shifting on into larger pots as they increase in size. The heat and humidity of the house should continue, though they should be moderately shaded from hot sunlight. In a dark house they fail to show their brightest color, but strong sunlight is equally detrimental. In the autumn, about October, the leaves begin to fade and the plants should then be gradually dried off until the leaves have all died down. Water should not be entirely withdrawn, as that is very apt to make the tubers decay inside, but they should be occasionally moistened, even during the dormant period when the pots are laid away under the benches. Even in this dormant period these tender tubers will not endure a temperature lower than 55° or 60°. The lack of proper temperature is the most common cause of failure with fancy caladiums.

Very few true species of caladiums are grown, those most familiar being garden hybrids chiefly from *C. bicolor*.

Our illustration represents the leaves one fourth natural size, the relative proportion of each being accurately preserved. Among those figured *Reine Victoria* is especially robust and showy; it has green veins and margins, spotted and marbled with white and deep Indian red. *Mme. Alfred Bleu* is deep green with broad bright crimson veins and white blotches; *Louise Duplessis*, red rays and veins on a white ground, green margin. *Clio* has a deep rose colored ground, shading to white, with green ribs and margin. *Belleymeri* is one of the finest with green and white leaves. *Imchartre* is very noticeable, with a white ground flushed with rose, green veins and red blotches. These leaves show every possible variation of red, white, green, and some yellow tones, although this color is less brilliant than the varied reds. A goodly number of fine hybrids have been

raised in California, four of those figured owing their origin to this country. We are constantly receiving fresh forms from Brazil, for the most part unnamed; the hybrids vary so greatly under different conditions that it is not very easy to keep them true to name.

To sum up, rich soil, heat and moisture are the chief factors in success with fancy caladiums. When they are potted for the second time several tubers may be put in one large pot, thus giving a mass for effect when the plant is well grown. Cold is the greatest possible enemy the plant suffers from; as soon as the temperature of the house drops in the autumn the foliage begins to go.

Philadelphia Notes.

Wm. K. Harris' new place is now completed, for this season at least, and consists of 37,500 feet of glass, heated by two 60-horse power boilers. These were made to his order and are likely to last a long time.

A recent visit found the gentleman himself superintending the finishing touches. The houses extend out from either side of a center shed 208 feet long by 24 wide, almost large enough for a circus; in fact the show that will be held in this structure every spring just previous to Easter will be as good as a circus to Mr. Harris and his men. Mr. Harris takes great pleasure in showing his visitors about, as he is sure to have something fine for them to see.

Of late years he has turned his attention to specialties, growing largely of rubbers, pandanus and dracaenas, and recently he has added arecas and latanias. Mr. Harris was the first to grow *Pandanus Veitchii* in quantity, and succeeded in getting it into salable plants much quicker than other growers before him had been able to do. His success with this led him to try other tropical plants, which he finds yield to his treatment equally as well.

His plan seems to be to keep a plant always in good growing condition, never allowing it to get checked, pushing it along from the time it leaves the cutting bed or seed pan until it is ready for sale. He says, "If you want to get up a good stock of anything you mustn't sell the small plants." For instance, his *Pandanus Veitchii* in 6-inch pots brought \$2 each; he had none smaller for sale, and if the sizes were small he would say, "I know they are not quite as large as they ought to be but they keep carrying them away and won't give them time to grow larger."

He has a very fine lot of *Areca lutescens* in 4-inch pots, 14 months from seed pan, 18 inches high, with 7 to 8 leaves and so broad that they are frequently taken for kentias; in fact one large palm grower in passing through one day said, "Why, I thought at first these were kentias; I never saw them with such broad leaves before." They are on side benches plunged in coke dust. "How is it you get such broad foliage; is it a variety or is it the treatment?" He replied, "It is our fostering care," and we passed on.

Rubbers are to be seen on all sides and in various stages of growth. A great many are grown into trees or plants having from three to five branches. This is effected by rooting the top while on the plant, which, when rooted, is cut off and then the old plant sends out two or more branches.

"Here is a lot," said he, "that are double cut. We like them single cut the best, but we can't always get them to

break as we would like; when they don't break to suit us we cut them down again. We have some dandies here that have broken of their own accord, or rather without cutting; they are what I would call natural grown. Nearly all this lot are breaking nicely. How to make them branch without cutting out the top is a little wrinkle I have gotten hold of lately. Here is one seven feet high with 26 shoots; it is not two years old yet and quite a number six feet, with from eight to twelve branches; and further along is a lot about eight months old with from three to six shoots; these were cut, however."

"You have a great many in the open frames outside; do they do well there?" "Yes, we find they get strong and hardy and the leaves present a glossy appearance they don't get in the house."

"There is cement on some of your tables, do you like it?" "Yes, we shall fix all of them this way. We find by putting a thin skim of cement on over the boards they last much longer."

"How about the variegated rubber, it's a good thing isn't it?" "Yes, a great addition. I find it stands the hot sun admirably; it will make an excellent plant for bedding out."

"You use a good many pedestals." "Yes, I think I was the first one to bring them out. They are very useful, as plants on them grow to a better shape and there is plenty of room underneath for young stuff to come on."

"Those *Dracena fragrans* are nice." "Yes, they are making fine plants. I buy all my small ones of these and grow them on, keeping the house at about 80°; they grow very fast when started."

"Do you like *Dracena Draco*; you have some of it here?" "No, it is nice in a large plant and very hardy, but it is too slow to be profitable."

"With such stock as you have about here the business must be good." "It is, excellent. Last season was the best with us so far; in fact it is hard work to keep up with the demand for our best stock."

K.

The Columbian Exposition.

Work is now begun on the large aquatic bed, which will occupy the southern court in the Horticultural Building. The lily tank will be lined with cement, resting on a clay bed, brick or stone being considered unnecessary. The loss by drainage will be but small; simply the cement lining is found all that is necessary in most cases, and naturally it materially lessens the expense. The corresponding court in the north end of the building, which is now occupied by thousands of tiny pansies, will be devoted next year to the Californian orange grove.

Among objects of interest during the past week were two large plants of *Phyllocactus latifrons* (Syn. *Cereus latifrons*) one bearing eighteen, the other twenty-two flowers. It is a night-blooming variety, one of the strongest growers of the species. It is Mr. Thorpe's intention to make a special exhibit of night-blooming flowers; he is endeavoring to secure a large collection of these cacti, which will be most interesting in conjunction with the night-blooming nymphs.

The early-flowering chrysanthemums, which are to be in time for the dedicatory ceremonies, are still being disbudded. An admirable idea, worthy of being copied where effect is required, is that of planting several plants in one box. It is less trouble than to cultivate a single large plant, while giving the same effect. This would be a very convenient thing for



FANCY CALADIUMS. PLATE II.

Clio.
Louise Duplessis.
Joaquin.

Chantini.
Reine Victoria.

Unnamed.
Duchartre.
Mme. A. Blanchard.

decorating a show house. The varieties being treated this way comprise some of the most reliable early sorts, among them Jessica, Firenze, Troubadour, J. C. Vaughan and Gloriosum. The mari-

golds which are to be used in decorating are planted in boxes, heavily mulched; the buds will all be pinched off until the middle of September.

A handsome bedding plant noted is

Celosia pyramidalis Thompsonii; it is an unusually fine type of *pyramidalis* from a Scotch grower. It is Mr. Thorpe's intention to make a fine display of the amaranaceae in bedding, comprising all the

ornamental varieties procurable.

The tuberous begonias still show the surprising difference between shaded and unshaded plants, the former retaining their marked superiority both of flowers and foliage.

A collection of foliage solanums is attractive, and suggests fine effects in combination with shrubs. These solanums are bold and noticeable in habit, requiring the companionship of plants too robust to be extinguished by them. Another collection of unusual interest consists of eucalyptus, a family little known among us, excepting the familiar Australian Blue Gum, *Eucalyptus globulus*. All the family are noticeable for peculiarity of habit or foliage; they are also remarkable for peculiarity of fragrance. One variety, *E. citriodorus*, is remarkable for a strong lemon verbenal odor, strangely in contrast with its prickly glaucous foliage. These eucalyptus will be a marked feature in the subtropical bedding.

Among the ornamental grasses to be used in bedding are the pennisetums, which form a most attractive border plant. Both hardy and tender grasses will be used, some being grouped in the herbaceous garden on the wooded island. In the rose garden Mrs. Jno. Laing is blooming abundantly, the flowers being excellent for this season. *Clotilde Soupert* is also flowering admirably; this little rose seems to be a regular gem, giving satisfaction to every one.

A big *Musa ensata* is a recent accession to the large plants, which is lengthening out at about the rate of twelve inches a week. This is expected to find a place under the dome, on the mount, where very large plants will be needed.

The lawns, all of which were sodded, are in very fine condition, and the roads are being rapidly improved. It is not intended to make any display of purely formal or carpet bedding, which is already well represented in the city parks; all the planting will be in the natural style.

Toronto.

"Canada's greatest fair" opens here beginning Monday, the 5th inst. and lasting until the 17th. As a great many Americans visit this exhibition, excursions being run to it from many points in the United States, many of your readers may have heard of it and probably some will visit it. The horticultural part of the show is always well worth seeing and some fine stuff is put up, but as the majority of the people who go to these fairs are more agriculturally than horticulturally inclined the whole thing does not inspire the same interest in the bosom of a gardener that a horticultural show pure and simple would; to hear an orchid called "a kind of a lily" and the astonishingly funny names given to other plants is apt to make him tired and in desperation plunge into frivolities, such as "merry go rounds," switch backs and other side shows.

This week I did myself the pleasure of visiting the establishment of Mr. J. H. Dunlop, and of a truth it is always a pleasure to see it at any season of the year. Mr. Dunlop needs no puffing from me and I can have no interest in puffing him, but I can say with truth (and any American who has seen his place can bear me out) that there is no place in the United States or Canada where roses are better or more intelligently grown than here. The houses are all well painted, clean, tight and tidy and everything in them and about them shows that attention is given to small as well as to great

things (it is wonderful how it tells when these small things are not neglected). But any one who talks to "Johnny" for a time and walks round his place with him can see that his whole heart and soul are in the business and that he loves his plants as he does his children, and I don't believe he could sleep at night unless he knew they had been given what he thought proper attention. All the roses are certainly in the pink of condition, those first planted being up to the top of the stakes with strong healthy growth and some cutting has already been done; a bench of *Niphetos* in this house was thickly set with buds and growing most luxuriantly. Among those in the second house planted a bench of *Bouquet*—a most useful rose very much like *Mermet*—had made wonderful growth for the time they have had to do it.

In the carnation houses the benches were being prepared to receive the plants. Mr. Dunlop said that nowhere in his travels had he seen nearly as good plants as his own and I certainly don't think a better or even lot could be found anywhere. Beds of *Garfield*, *Tidal Wave* and *Welcome* were every plant about 7 or 8 inches through. *Silver Spray* seems to be the best white in these parts, and large quantities of it were growing well here. Other standard sorts are also grown in quantity and many of the latest new ones are being given a trial. *Violets* were in good shape and showed not a sign of disease as yet. Great credit should also be given to the foreman, Mr. H. J. Cole, who by the bye is a disciple of Mr. John N. May, for the way in which he does his part.

All the glass in these houses is butted and there is not a doubt but what it is the neatest, quickest, most convenient and best way of glazing; no putty is used, the glass is simply laid in the grooves and the cap screwed down to the bar. Mr. Dunlop was surprised to find at Philadelphia that the florists there had not made a success of it, but properly done there is nothing to beat it, it is tight, simple and neat.

Talking over convention matters Mr. Dunlop was enthusiastic over all the proceedings and entertainments and gave glowing accounts of all his experiences in Washington, Philadelphia, Atlantic City and Buffalo.

On my way to Mr. Dunlop's I called on Mr. A. McPherson, gardener to Colonel Sweny, whose fine residence is on St. George street. Here I found a lot of chrysanthemums which are likely to make their mark next November; some of them are already three feet through, all vigorous and healthy; the mystery to me was where room is found to stow them all when they attain their full size. There are also many single stem plants in 4, 5 and 6-inch pots. Large quantities of flowers are used by Mr. McP.'s employers and to all appearances they get all that could possibly be squeezed out of the small area of glass on the place. The greenhouse is a T shaped span roof, well constructed and situated for producing bloom. A bench or two of roses, lots of poinsettias, primulas, cinerarias, etc. were all promising good things for the future. A fern and orchid house on the north side of the T was also looking fresh and green, among other large specimen *adiantum* I noticed *A. cardiolobum* and *A. Peccotetii*, the latter very pretty with fronds just the thing for boutonnières. Mr. McP. goes in for hybridizing to a considerable extent and is anxiously awaiting results from several crosses in carnations and chrysanthemums.

Boston.

There is very little doing as yet in the cut flower stores, but customers are beginning to return to the city and florists are looking for an early revival of trade, although experience has taught them an election year is not to be depended upon for a brisk fall business. The last day of August marked the end of the early closing season and now all the stores are open well into the evening. *Gladioluses*, *Japan lilies*, *hydrangeas* and *asters* form the larger part of the window decorations, but there are some very fine roses of the common varieties to be seen. *Mermet*s, *Perles*, *Niphetos*, *La France*, *Brides*, etc. are unusually good for this time of the year. *Carnations* are very scarce. Strange as it may seem the fakers seem to get hold of most of the carnations coming in, and while some of the best stores are nearly starving for them they are at the same time to be found in limited quantity and best quality at the fakers' stands. *Tuberose*s are very abundant. *Asters* almost gone, the recent heavy rains having done great damage to them.

Several new flower stores have been talked of, but only one has so far materialized. Daniel Gormley has opened a neat little place at 35 Tremont street. Welch Bros. are getting gradually settled into their new establishment on Beacon street.

A silver medal was awarded on August 27 for a splendid pan of *Hippeastrum reticulatum* exhibited by F. L. Harris, gardener to H. H. Hunnewell. It bore 21 spikes with 120 flowers and buds, and made a beautiful show in Bowditch & Long's window where it remained for a week after the exhibition. Visitors in town this week: J. T. Anthony, Chicago; C. H. Allen, New York, and A. Ingram, of London, England.

Philadelphia.

There has been a decided change in the weather, it now being cool and pleasant; people have thrown aside that tired worn out look and with a bright invigorating expression on their face they seem ready to enlist for the campaign of home life and engage again in the social battles of the fall and winter season. We as of yore stand ready to deliver the ammunition, hoping that war will soon be declared and that the campaign will last long into the spring.

For the season business has been fairly good and the early skirmishes in the shape of estimates for the October weddings have commenced.

The supply of flowers in almost any variety is quite sufficient for the demand. *Asters* have been very fine this season. R. M. Eisenhart, of Holmesburg, has just cut out a house of as well grown flowers as we have seen for a long time; they have brought from 75 to 1.50 a hundred. *Tuberose*s may be had in any quantity for \$3 a hundred stalks. *Roses* bring from 2 to 4 according to quality and variety; they are very nice for the season.

The Eleventh street boys are enlarging their grip on the business. George Craig has added a new bulk window similar to the one erected last season; the front now presents a very attractive appearance. The store and greenhouse have also been wired throughout and fitted with fixtures for incandescent lighting, which by the way is the only light suitable for a florist's establishment, and should be used wherever obtainable; gas is a back number, to be kept turned off at the meter

and only allowed in the building in a case of emergency.

Robert Crawford has torn his place completely inside out, erecting practically a new greenhouse, and put in new bulk windows the length of his store. On entering the front door one is now able to take in the whole establishment at a glance; the change has been a very complete one and adds considerably to the beauty of the place. Mr. Crawford is a very hard worker and deserves the success he is having.

John W. Young suffered a severe loss in the death of his father, which occurred on August 28.

The boys were considerably excited over a bowling match which took place at the alleys of the club on the evening of September 1. John Westcott picked out a team and challenged the winners of the cups at Washington. The match consisted of three games, but one was enough although the three were rolled. In the first game a new record for our club was made, the Washington six making 955 pins, an average of over 155 for each player, which is very good in a match. The final result of the contest was, Washingtonians or cup winners and defenders, 2686; their opponents (no name) 2478; the Washingtonians winning by 208 pins. The first six men in the match made averages of from 152 to 157, which is good rolling. K.

Washington.

Business is very dull about the flower stores and the flower stands in the markets. About the only thing the florists are called upon to do is to make up funeral designs; the demand for this class of work is unusually large at present.

The weather is cool and pleasant but remarkably dry. Have had no rain for more than five weeks and a brisk N. W. wind and the warm midday sun is telling on all vegetation through and about the city. Trees and shrubbery on the streets and in the parks are suffering very much and some are dying for the want of rain. Though Potomac water is being used freely in some of the squares and reservations, yet that don't seem to answer the purpose altogether, they continue to lose their foliage. The dairy men in this section are complaining about the continued drought, saying their pastures are burnt up and they are obliged to feed their stock as though it was midwinter.

Victoria regia and its variety Randidi in the Bartholdi basin and the V. regia in the fountain in the south lawn of the Executive Mansion are flowering very freely. The plants in the Botanic Garden have produced some eight or ten flowers this season. The warm weather has a good effect upon them as well as on the other water lilies in the fountains throughout the city; if it does no other good it produces flowers on this class of plants.

The ficus bed at the Botanic Garden I think would please even Deacon Harris. The plants have improved wonderfully during the hot weather of the past few weeks and with a liberal use of Potomac water. The variegated form of *Ficus elastica* seems to do far better planted out in the open air where it can get the full sunlight; it takes on a brighter variegation. The plants in the sub-tropical beds, the coleus, acalyphas, achyranthes, alternantheras and abutilons are 50% better and brighter than they were during convention week. The gardens and parks, so far as the bedding plants are concerned, present a far handsomer appear-

ance now than they have at any time since being planted, though a number of men are kept constantly watering them with the hose. Never since the parks have been planted with this class of plants has so much water been required at this season of the year. Geraniums, salvias, vincas and zinnias are about the only plants in flower at present.

The bedding plants at Soldiers' Home are actually dead from the want of rain, they having no supply of city water, depending entirely upon springs for their supply. The forest trees are also suffering greatly and a number are dying.

C. LESLIE REYNOLDS.

Chicago.

Flowers have wonderfully improved within the past ten days, and trade is correspondingly brighter. Outdoor stuff is greatly reduced in quantity, but there is an excellent demand for this stuff, so far as it can be obtained. As soon as the outdoor flowers are out of the market roses will materially increase in price. Asters have come to an end, the last consignments being rather poor, and gladiolus are becoming spindling and spare of flowers. Dahlias are generally poor, coming mostly with short stems. This has been an unfavorable season for them and they have proved disappointing to their growers. Sweet peas are now off crop, but we are told that some growers intend protecting them outside, in the hope of late cutting. Single violets are coming in, though not in large quantities; they are the only violet now in the market.

Carnations still continue to be scarce; nearly all are from outside plants and many are short stemmed or off color. However, they sell easily enough; it appears as if buyers will find the carnation supply very short all this season. No fancies are coming in at present; merely the standard whites, pinks and reds. Buttercup, Wilder and Daybreak are out of the market. Kennicott Bros. speak very highly of Daybreak, it being more satisfactory to many purchasers than the Wilder; its color always sells it.

Roses are finely colored, and firm in substance, the cool weather having been highly beneficial. Perles are coming in finely and a good supply of first class Albany is in the market. La France is good, but Albany is better just now. Papa Gontier is fine and has now taken the place of Bon Silene completely here. Beauties are chiefly cut from young plants, so the flowers run rather small, but excellent in color.

The project of a Chicago Cut Flower Exchange has been revived, Mr. O. P. Bassett having taken hold of the matter with a vigorous hand. At a meeting held last Tuesday afternoon several hundred shares of stock were subscribed and Mr. Bassett stands ready to take any remaining stock after all have had a chance to take what they want. It was finally decided to issue a call to every florist in and around Chicago to attend the next meeting, which will be held in the club room of the Sherman House, at 11 a. m. Wednesday, Sept. 14. The call will be signed by the following: O. P. Bassett, Schiller & Mailander, Peter Blaumeiser, Jacob Meyer, J. T. Anthony, Geo. Klehm, W. L. Smith.

Do you want a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

Cincinnati.

During the latter part of the week ending August 27 and the fore part of the following week business got a little move on itself and reminded us of the busy days of January, but now it is back in the same old summer state of inactivity.

The market is flooded with roses and they are good, too, for this season, but the demand is very slight, so they stay in the ice boxes until time for them to make their final pilgrimage to the ash barrel. There have been some calls for asters, especially white and purple, there is nothing in them, though, on account of their bringing a very low figure. Carnations are scarce. We don't miss them much for the demand is small. There will probably be an advance in the price of Brides and Mermets about the 12th inst.

On the 10th inst. one of our largest retail dry goods stores will have its first grand opening, and the successful bidder will receive one of the largest contracts for floral decorations ever given in this city. At least 40,000 roses will be used.

Robert Elhrott has now the entire control of the Cincinnati Floral Company.

Messrs. Corbett & Wilson and Mr. Walter Gray, of College Hill, are erecting new houses, while Mr. Fred Walz, of Cumminsville, and the Brunner Bros, of Price Hill, are putting on new roofs and doing repair work in general.

Mr. E. G. Hill, of Richmond, spent Saturday with us.

Let everybody look out for the "finest show on earth." That is, the floral exhibition and display of chrysanthemums to be given by our florists during the second week of November of this year. It is really and truly to be a whopper. All our growers are hustling for it and the dealers are not behind them in the good work. All the special stock being grown for this occasion is getting along in great shape. Keep your eye on Cincinnati. E. G. GILLETTE.

St. Louis.

The weather here has been cool and pleasant but a little dry. Florists are preparing for an active season. The chrysanthemum show is stimulating the production of fine specimen plants.

Florists shipping to this market will have a choice of three commission houses. Mount & Co. are receiving consignments at their old stand, C. A. Kuehn continues the business of Ellison & Kuehn, while Mr. Wm. Ellison has opened up a handsome store at 1402 Pine street.

J. C. DUFFEY.

Using 2-inch and 4-inch Pipe Together.

In reply to Mr. Wm. Horlachser's inquiry on page 16 of the FLORIST for August 11, will say I have used 2-inch pipe in connection with 4-inch and with good results. A. H. C.

KENNETT SQUARE, PA.—At the last meeting of the Chester County Carnation Society the subject for discussion was the Washington convention, and all who were present at the convention united in making a favorable report. The subject for the next meeting is: "What is the best treatment for carnations after housing?"

Do you want an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents per word, seven words each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a single young man with 10 years' experience. Address
FLORIST, 465 S. Clark St., Chicago.

SITUATION WANTED—By a young man of 18 as florist, being in the business 4 years; can show good references; willing to work and steady hand. Address
J. F. care American Florist.

SITUATION WANTED—In some western city, by a man of great experience; a position as foreman or manager in a commercial florist establishment; highest references. Address
S. care American Florist.

SITUATION WANTED—In commercial place, by practical florist; roses, carnations, Violets, bulbs, etc.; 12 years' experience; strictly sober; age 30, single; good place wanted. State wages. Address
L. care American Florist.

SITUATION WANTED—By a first-class florist and earner, social and reliable; commercial or private place; 20 years' experience in Europe and United States; best of references. Address
L. F. care American Florist.

SITUATION WANTED—By single young man, American, as second gardener; 8 years' experience in both private and commercial places; first-class references from last employer. Address
R. C. Box 93, Mattawana, N. Y.

SITUATION WANTED—In private place by married man; no children; 25 years' experience; half in this country. Rose growing, general greenhouse work, landscape gardening. Highest references. Address
L. K. care American Florist, Chicago.

SITUATION WANTED—By a German gardener, thoroughly experienced in indoor and outdoor, including treatment of orchids and used to office work; good references. State wages. Address
H. G. care American Florist, Chicago.

SITUATION WANTED—By a young man, single, age 27, on a commercial place; thoroughly understands greenhouse work; roses, carnations and Violets; wishes to be business. Philadelphia preferred. Address
COMPETENCY, care American Florist.

SITUATION WANTED—By a thoroughly practical florist, to take charge of commercial place; vicinity of Chicago or west preferred; 15 years' experience in all branches; English; 30¢. Highest bid class preferred. Address
X. care American Florist.

SITUATION WANTED—By a young German-American, ready to take charge of a fine retail florist store; understands design work of all kinds of cut, artificial and dried flowers. Address
Miss B. HILDEHEIM, care Mrs. Emmott, Nantucket, Mass.

WANTED—A young man about 17 for commercial place. Address
Box 94, North Indianapolis, Ind.

WANTED—Stock for new greenhouses. Send catalogues of prices. Address
FAIR & DANE, box 311, Altoona, Pa.

WANTED—A good steady florist to work in greenhouses and on farm; must have experience; German preferred. Address
BOLANZ Bro's, Akron, Ohio.

WANTED—To lease or buy, 3 or 4 medium greenhouses within 20 miles of New York City. Address, with all particulars
PLANTSMAN, care American Florist.

WANTED—Experienced man or lady to take charge of our cut flower department. A good position for the right person.
LYONSSEN'S SEED STORE, Columbus, Ohio.

WANTED TO RENT—A florist establishment with at least 5 or 6 greenhouses; must be in good condition. State price and further details. W. B. care Jos. Wyss, N. W. Cor. Elm and George streets, Cincinnati, O.

WANTED—Two experienced commercial greenhouse men, honest, willing and active. State age, experience, wages expected and all necessary particulars. Name references. Permanent employment if suitable. Address
J. N. & E. PENNIE, N. Jackson, 10th and Wolf Sts., Philadelphia, Pa.

WANTED—By September 15th or before, single man, honest, sober, industrious and willing to work; good grower and propagator and able to make up. Must have good references—others need not apply. Wages \$24 per month with board and room. Address
VICTOR JOHNSON, Pueblo, Colorado.

FOR SALE OR RENT—Greenhouse, 2,000 feet of glass. Terms easy. Address
L. J. SMITH, Madison Wis.

FOR SALE—A florist store with greenhouses attached, doing a first-class business. For particulars apply to
W. F. ELLIOTT, 332 Olive St., St. Louis, Mo.

FOR SALE—Nursery and fruit farm of 40 acres, with assortment of trees, small fruits, flowering shrubs and plants, greenhouse, hotheds, etc. Price \$2,000. Address
D. S. SMITH, Grand Junction, Iowa.

FOR SALE OR LEASE—4th established florist plant business, 2 greenhouses, inside Chicago limits, city water, good location. A bargain. Address
H. care American Florist, Chicago.

FOR SALE—A well established florist business, six greenhouses and full stock on account of death; 10 years' lease on land; only 20 minutes from flower market. For further particulars inquire of
Mrs. C. B. LISK, 231 Laflap St., L. I. City, N. Y.

FOR SALE OR LEASE—Very rare chance for good party. I will sell, lease or let on shares my florist business on account of poor health; very desirable location; flowers sold on premises. Come and see for yourself. Possession at once. Business can be greatly increased. Address
LOUIS B. FOX, Gloversville, N. Y.

FOR SALE OR RENT—Rose growing plant containing 2,000 square feet of glass, with property, situated 25 miles from New York City. Stock and lawns in A1 condition. Houses all planted, mostly American Beauty and La France. Will sell on easy terms. Address
ROSE GROWER, care American Florist.

FOR SALE—At a bargain, a well established florist business in a western city of 10,000 inhabitants. 5,500 feet of glass, well stocked; city water, electric lighted, steam heated, in good repair; trade mostly cut flower work, good paying trade. Must be sold on account of illness. Address
A. B. C. care American Florist.

FOR SALE AT A BARGAIN—Only greenhouses in city; 6,000 feet of glass; 4 greenhouses in good repair; steam and water heating; fine stock of plants; splendid trade all year, 5 acres land, small fruits—big crop this season. Everything being prepared for this winter's bloom. Communion dwelling house, barn, etc. Will exchange for farm or other property. Write to
W. J. BIGG, 41, Fremont, Neb.

FOR SALE CHEAP—5 greenhouses 50x12, built in 1888 on large lot to town, with sashes, frames, tools, pots, winter stock of carnations, bouvardias, Violets, chrysanthemums, etc. Heated with Myers hot water boiler; good food land in front of greenhouse; near street market, Phila.; a bargain, \$1,200, half left on mortgage. Address
12th Street Market, Philadelphia.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam; grappery 80 feet long just coming into bearing; recently built, 30 acres of land, a beautiful tract; large house containing 15 rooms, new barn; within 35 miles of Philadelphia and one mile from station. Will be sold on account of ill health. Possession any time. Address
ISAAC LARKIN, Tongueknocken, Chester Co., Pa.

Extra Fine, Strong, Field Grown CARNATION PLANTS.

HINZE'S WHITE, PORTIA, CRISPEIGHTON, GRACE WILDER, LIZZIE MCGOWAN, W. F. DREER.

Send for prices to
EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.

NOTICE.

Our roses are all sold.
We are now booking orders for Field Grown Carnations, of which we have about 50,000 plants. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

NANCY HANKS HORSES AND CARNATIONS.

Shade of the popular Grace Wilder but of stronger growth. Field grown plants of these and Daybreak; also 35 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

Carnations for Winter Flowering

BUTTERCUP, and all leading kinds. Established in pots. Roots kept intact. No risk in shipping. Write for prices including expressage.

A. S. MacBEAN, Lakewood, N. J.

CARNATIONS

Field grown plants, \$6 & \$7 per 100.

GRACE WILDER, SILVER SPRAY, HECTOR, ETC.

GEO. E. BUXTON, Nashua, N. H.

FIELD GROWN CARNATIONS,

READY SEPT. 15

of the following varieties:
HINZE'S WHITE, SILVER SPRAY, PORTIA, AND GRACE WILDER.

J. A. TRACHT & SON, Galion, Ohio.

AURORA
Carnation Plants

FROM THE FIELD.

Send for price list.

EDW. SWAYNE, Carnationist.

KENNETT SQUARE, PA.

10,000 CARNATIONS.

Garfield, Hinze's, Wilder, Mrs. F. Mangold and J. J. Harrison.....	Per 100, \$9.00; \$7.00 and \$ 8.00
ROSES —Albany, La France, Mornet and Sacramento, from 3-inch pots.....	6.00
Albany, La France and Wootton, from 2 1/2 inch pots.....	3.00
Bride, Mornet, Sidraam and Bon Silence, each pots.....	2.50
VIOLETS —Marie Louise and Swanley White.....	4.00
Asparagus Tenissimus, 3 1/2-inch pots.....	8.00
Dracena Indivisa, 5 1/2-inch pots.....	\$1.00 per doz. 8.00
Fern Pteris Serulata, 3 1/2-inch pots.....	\$1.00 a doz. 8.00
Gravillea Robust, 1 1/2 to 1 3/4 in. high.....	\$2.00 per doz. 15.00
Pandanus Urtica, 4 1/2 inch pots, strong.....	\$5.00 per doz.

NATHAN SMITH & SON, Adrian, Mich.

CARNATIONS

30,000 field grown plants. Stock fine, healthy, bushy plants.

Hinze's White.....	Per 100 \$5.00
Orange Blossom.....	5.00
Snow Bird.....	6.00
Lizzie McGowan.....	6.00
Mayflower.....	4.00
White Wings.....	5.00

Fine strals of Pansies, \$5.00 per 100.
5,000 Marie Louise Violets, \$8.00 per 100. Extra fine plants, free from disease.

Address **GEO. B. WHITEHEAD, GREEN'S FARMS, CONN.**
Lock Box 116, Mention American Florist.

CARNATIONS AND VIOLETS.

Extra fine field-grown Carnations, Anna Webb, Hinze's White, Grace Wilder and Portia, at \$3.00 per 100 or \$75.00 per 1000.

Extra large clumps of Marie Louise Violets, guaranteed perfectly free from disease, \$6.00 per 100 or \$50.00 per 1000.

These prices are but for orders received before September 19. Also extra large plants of Vinca, fol. var., field grown, English Ivy and Chrysanthemum.

JAGD & CO., Box 63, Springfield, Mass.

CARNATIONS, FIELD GROWN.

GOLDEN * TRIUMPH,

and other varieties.
Send for list with prices.

R. T. LOMBARD, Wayland, Mass.

CARNATIONS

Strong plants, \$8 00 per 100.
Grace Wilder, Tidel Wave, Silver Spray, etc., etc.
BOUARDIAS Pres. Cleveland, Davidson, Pres. Garfield, Bridal Bouquet, \$5 00 per 100.
PRIMROSES, 2 1/2-inch pots, \$4 00 per 100.

WM. A. BOCK, North Cambridge, Mass.
Mention American Florist.

\$55.00

Will buy 725 fine strong, field grown Carnations, 3 1/2 inch Hinze's White, and the balance assorted, including Silver Spray, Garfield, May Queen, Grace Wilder, Black Knight and J. J. Harrison.

COLIN SKINNER, Davisville P. O., North Toronto, Ont.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, American Beauty, Perles, Duchess of Albany, La France, Niphetos, in 2 3 and 4 inch. Gontier, Mme. Hoste, Meteor, C. Mermet, Wootton, Bride, Bon Silene in 2 and 3 inch.

PRICES GIVEN ON APPLICATION.
A few fine Hybrids and Everbloomers left.

PALMS.

Latania Borbonica, fine large plants at \$4.00 and \$6.00 each. A few left at \$7.00, \$15.00 and \$20.00 per 100.

We will be pleased to see our friends that are passing through the city at any time. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

Roses.

MERMETS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN AMI, MME. CUSIN, WABAN, BON SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.

From 3-inch pots, \$5.00 per 100; \$75.00 per 1000.
2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

CARNATIONS.

Strong, healthy, field grown plants.

Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Martha, Mrs. Fisher, Hector, Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$70.00 per 1000.
2nd size, \$6.00 per 100; \$50.00 per 1000.

PURITAN, best new white.

GOLDEN TRIUMPH, Yellow.

AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.

Send for price list.

WOOD BROTHERS,

Fishkill, N. Y.

FOR SALE: Good healthy stock at rock bottom prices. We need room and money and the stock must go.

ROSES.

400 Perles, 2 1/2-inch pots.....	\$ 3.50
75 Brides, 4-inch pots.....	8.00
125 Brides, 3-inch pots.....	2.50
350 Mermets, 3-inch pots.....	4.00
200 Mermets, 2 1/2-inch pots.....	3.00
100 Mermets, 2-inch pots.....	2.50
125 Hoste, 3-inch pots.....	4.00
200 Eliza Fugler, 2 1/2-inch pots.....	3.00
150 Mme. Watteville, 2 1/2-inch pots.....	3.00
200 Mme. Cusin, 2 1/2-inch pots.....	3.00
150 La France, 2 1/2-inch pots.....	3.00
300 Anna Mme. Crozy.....	\$4.00 per doz.

W. W. COLES, Kokomo, Ind.

Who Wants Them?

10,000 fine, large Climbing Roses, 2 years: Greville, Baltimore Belle and Tennessee Belle, \$5.00 per 100. SPEAK QUICK.

WM. B. REED, FLORIST,

CHAMBERSBURG, PA.

FORCING ROSES.

To close out we offer plants as follows:

20 ALBANY.....	Per 100	Per 1000
200 WABAN.....	3-inch, \$6.00	3 1/2-in. \$8.00
500 WABAN.....	3-inch, 6.00	3 1/2-in. 8.00
200 MERMETS.....	3-inch, 6.00	3 1/2-in. 8.00
200 AMERICAN BEAUTY.....	3-inch, 9.00	
200 NIPHETOS.....	3-inch, 7.00	
100 MME. HOSTE.....	3-inch, 7.00	
200 NME. P. GUILLOT.....	3-inch, 8.00	

All strong, healthy stock.

BROWN & CANFIELD, Springfield, Ill.

SEND FOR A COPY
— OF OUR —

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet..... Per 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE..... per 1000 \$60; 7.00

MRS. FISHER..... 7.00

VIOLETS.

Neapolitan..... per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,

in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

ROSES.

PERLE, 2 1/2-inch, fine..... Per 100 \$ 5.00

SUNSET, 2 1/2-inch, fine..... 5.00

C. SOUPERT, 2 1/2-inch, fine..... 5.00

MME. P. GUILLOT, 2 1/2-inch, fine.. 8.00

AM. BEAUTY, 3 1/2-inch..... 14.00

J. C. VAUGHAN,

P O Box 688.

CHICAGO.

THE

NEW ROSE

BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

IMPORTED H. P. ROSES,

Worked low on the Masotti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS..... \$30.00 per 1000
HYBRIDS..... 45.00 per 1000

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

Mention American Florist.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,

STEINFURTH, NAUBEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
1000 plants, extra choice 20s, 1 yr. seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
1000 plants, 1st choice, straw thick, 11s, 1 yr. "
Each with order. Seed via Bremen Lydr.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

HARDY TWO YEAR ROOT ROSES.

From open ground. Price, plants two to four feet high,

OUR SELECTION, - \$100 per 1000

BUYERS " - 120 " "

CLIMBING ROSES, - 80 " "

TREE CINNAMON STOC S.

HARDY SORTS. ROSES.

A VERY FINE LOT, INCLUDING THE BEST HARDY SORTS.

PRICE, plants from open ground, ready for shipment Oct. 1st, \$100 per 1000.

Plants in 10-inch pots, for immediate shipment, \$15.00 per dozen.

Address **W. S. LITTLE & CO.,**
COMMERCIAL NURSERIES, Rochester, N. Y.

Mention American Florist.

3,000 JACQUEMINOT ROSES,

From 3-in. pots, \$5 per 100; 4-in. pots, \$6 per 100; 5-in. pots, \$8 per 100.

2,000 Begonia Rex from 3-in. pots, \$5 per 100.

3,000 English Ivies, from 4-in. pots, 2 ft. high, \$4 per 100.

5,000 English Ives, same size, lifted from open ground, \$3 per 100.

10,000 Violets, Marie Louise, strong June cuttings, rooted out door, positively no disease, \$2 per 100.

2,000 Bouvardia Davidsohn and Alfred Neuner, 3-in. pots, \$5 per 100.

500 pots of Acorus variegata, strong plants, fine for trimming in funeral work, \$10 per 100.

All guaranteed to be healthy and vigorous. Will exchange on reasonable terms for thirty young stock of Bon sienne Roses.

JOHN RECK, BRIDGEPORT, CONN.

When ordered mention American Florist.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. ROSE.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is a very strong, healthy grower, with beautiful foliage, nearly every shoot producing a flower on long erect stems, of ivory whiteness and beautiful shape. I have a house full of them which is admired by every florist. My stock comes direct from the originator.

Price of Plants in 3-inch pots,

\$5.00 per dozen.

Price on larger quantities on application. Cash with the order.

J. COOK,

318 Charles Street, BALTIMORE, MD.

SURPLUS STOCK OF ROSES,

Mermets, Bides, La France, Duchess of Albany, 3 1/2 inch pots..... \$ 6.00
Smilax, 3-inch..... 4.00
Asparagus tenuissimus, 3-inch..... 5.00

The above is all strong and healthy stock.

RAUSS BROS.,

220 Moran Street, DETROIT, MICH.

ROSES.

Perle, Mermet, Bride and La Frances Roses, in 3-in. pots; Also Smilax in 2-in. pots.

Prices on application. : : :

Address **A. T. JACKSON,**

BOWMANVILLE, ILL.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Baltimore.

Wagon loads of trunks bearing the marks of travel begin to be seen on the streets, and here and there a house long closed has doors and windows wide open while being swept and garnished for the home coming master. The theaters are all open and apparently well patronized, while rumors of approaching social "events" begin to be heard and revive hope in the "store" man's heart.

The county fair took place from Tuesday to Friday a short distance north of the city, and served to stir up a few of the growers into competition for the somewhat limited premium list in the floral way. Some well grown palms were shown by Mr. A. L. Black, and Mr. C. M. Wagner had a nice collection of variegated foliage plants, among which were some well grown and colored caladiums. Mr. E. G. Prince had a number of fine plants from Mrs. Chas. Ridgeley's conservatory, which he manages, and several collections of cut flowers, including one of magnificent *Celosia cristata* heads, perfectly shaped and averaging about fifteen inches in breadth. Mr. Richard Vincent took first on floral design, for a plover, which attracted much admiration from the country lads and lassies. Brackenridge & Co. had first on a collection of gladioli and first on one of hardy phlox. The show was very fair but not what it should have been, and if the trade were alive to the usefulness in an advertising way of exhibiting at the fair where they are seen by the best trade in the county and much of the best from the city as well, at a time when they have plenty of leisure and flowers, we would see the beginning of grand summer exhibitions. The exhibitions can not be held in the city, for the people are in the country, so why not get up a livelier competition for the prizes that are offered and justify the management in offering more and better ones?

Flowers continue in fair supply. Buds are getting much better in color and size; asters about done; dahlias and tuberoses are plentiful and cheap. The appearance of a few cosmos and the fading of the summer flowers, as well as an occasional chilly night, point to the oncoming of autumn and, barring cholera, trade.

MACK.

ALL seedsmen, florists and nurserymen who are depending on supplies from Europe to arrive during late fall and winter for spring trade of 1893 are anxiously noting the cholera precautions now being taken at all seaports. It would seem probable that 20 days quarantine delay and any great heat used in fumigation would be fatal to most plants as well as seeds. Further serious complication of this question is the fact that many catalogues must be printed before it can possibly be known whether the supplies will come through safely or not. This is certainly a good time for our horticultural societies, their officers and committees to illustrate the benefit of concerted action and prove that they have been organized for some real purpose.

MR. HARRY WALLIS writes us from Leavenworth, Kans., that while the report as to his being overcome by the heat at Cincinnati was correct, the statement that he could not recover was erroneous as he is alive and in good health to disprove the doctor's assertion.

YOU CAN never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cts each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

BARGAINS.

STEVIA, from 3½-inch pots.....	Per 100, \$ 4.00
DOUBLE SWEET ALLYSUM, from 2½-inch pots.....	2.00
MUMS, from 2½-inch pots.....	2.25
Large field-grown plants.....	10.00
Geo. W. Childs, W. A. Manda, Roslyn, Mrs. E. D. Adams, from 6-inch pots.....	35c each
CASH, or C. O. D.	

S. B. FIELD, Roselle, N. J.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

CYCLAMEN PERSICUM GIGANTEUM

2-inch pots, showing bud, \$8.00 per 100.

CARNATIONS. Field grown.
LIZZIE McGOWAN, MRS. FISHER, PORTIA J. J. HARRISON, and others. Price 8¢ per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

Special Offer to American Trade

LOUIS DE SMET,
NURSERYMAN, GHENT, BELGIUM.

Offer as Specialties:
Palms, Azaleas, *Arbutus ovata* (thousands), Bay Trees, Tuberosus Begonias, Gloxinias. New Trade List on application.

CALLAS.

Dry bulbs, different sizes, 3 to 10 cents.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery.

BRAUER & RICHTER, McConnellsville, O.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

GLADIOLI AND CANNAS

Now is the time to order if you want to **BE SURE** of getting the best varieties in quantities desired. Place order now; delivery will be made at such time as you desire.

Descriptive price list on application.

Wisconsin Flower Exchange,
131 Mason St., MILWAUKEE, WIS.

Ficus Elastica.

Extra strong plants, 6-inch pots, \$5.00 per hundred.

ANDORRA NURSERIES,
Wm Warner & Co. per, CHESTNUT HILL, PHILA., PA.
MANAGING

Wanted at Once.

1,500 MARIE LOUISE VIOLETS.
300 ROSA MULTIFLORA. (OR WHITE BOUVARDIA).

Please correspond with

POEHLMAN BROS.,
Morton Grove, Cook Co., Ill.

Azalea Indica.

Tremendous stock of large plants specially grown in pots for forcing and exportation.

For prices and particulars, apply to

EDW. PYNAERT, Nurseryman,
GHENT, BELGIUM.

VIOLETS WANTED.

Any grower having from 25 to 50 or more blooms please express them at once and telegraph us at our expense. Do not delay. We want a quantity by Saturday.

WISCONSIN FLOWER EXCHANGE,
131 Mason St., MILWAUKEE, WIS.

JULES DE COCK, NURSERYMAN,

Ledeberg, Ghent, Belgium,

offers *ARAUCARIAS*, *ASPIDISTRA*, *AZALEA INDICA*, *DRACÆNAS*, *PALMS LAURUS TINUS* and *NOBILIS*, with crowns or pyramids, *SPIRÆA JAPONICA*, and *AUR. RET.*, all by the thousand. Packing free for cash with order.

Price list on application

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets, use our **FLORISTS' GREEN THREADS.**

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
—WRITE FOR SAMPLES AND PRICES.—

FOR SALE.

CLEMATIS CUPA.
Also *SAGRACENAS*, *DIONEA MUSCIPULA*, and other insectivorous plants.
Write for prices.

MISS FANNIE JOHNSON,
702 Dock Street, Wilmington, N. C.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All flowers in season.
Full line of FLORISTS' SUPPLIES.
Mention American Florist.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Night 9 P. M.; Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers & Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.
Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
CHICAGO, ILL.
Telephone 4786.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

FLORAL DESIGNS
The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Market.

Cut Flowers.

NEW YORK, Sept. 6.	
Roses, Perles, Sunsets, Gentians.....	1.00¢ 2.00
" Merveils, Brides, Niphetos.....	2.00
" Watervilles, Hostes, Benardets.....	1.00¢ 2.00
" La France, Albany.....	2.00¢ 4.00
" Beauty.....	3.00¢ 15.00
Camartians.....	.50¢ .75
Valley.....	1.00¢ 6.00
Adiantums.....	1.00
Smilax.....	10.00
BOSTON, Sept. 6.	
Roses, Niphetos, Gentier.....	2.00¢ 3.00
" Bride, Merveil, Woodton.....	3.00¢ 4.00
" La France, Meteor.....	4.00¢ 6.00
" Perle, Sunset.....	3.00¢ 4.00
" Beauty.....	3.00¢ 12.00
Camartians.....	1.50
Asters.....	.50
Valley.....	4.00
Tuberose.....	.75
Gladiolus.....	3.00¢ 4.00
Hydrangeas.....	3.00¢ 4.00
Japan Lilies (rubrum).....	2.00
(album).....	4.00
PHILADELPHIA, Sept. 6.	
Roses, La France, Albany, Bride.....	2.00¢ 3.00
Perle, Niphetos.....	3.00¢ 5.00
" Marie Guillot.....	2.00
Valley.....	6.00
Sweet Peas.....	.25¢ .40
Gladiolus.....	2.00¢ 4.00
Tuberose.....	4.00
Camartians.....	.50
Asters.....	.50¢ .75
Adiantums.....	.75¢ 1.00
Smilax.....	15.00
CHICAGO, Sept. 6.	
Roses, Perle, Niphetos, Gentier.....	2.00¢ 4.00
Camartians, long.....	2.00
" short.....	.75
Smilax.....	1.50¢ 2.00
Asters.....	.50¢ .75
Adiantums, doz.....	.75¢ 1.00
Gladiolus, doz.....	.05¢ .70

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.

Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.
Mention American Florist.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

HARDY CUT FERNS
MOSS (SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN AND FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

WHOLESALE FLORISTS
Le Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. Don, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggart, chairman membership committee, Wethersfield, Conn.

JOEL HORNER & SON, Delair, N. J., have failed.

H. W. LANDRETH, seedsman, Battle Creek, Mich., has sold out.

WE BEG to remind Velox that we do not print anonymous communications.

VISITED CHICAGO: Henry A. Salzer, F. W. Barteldes, James Sproule, C. P. Branson, M. Engleman, of Omaha.

INCOMING steamers from Holland with Dutch bulb shipments are now being delayed from five to seven days at quarantine.

VISITED NEW YORK: Mr. J. Comont, from Carter, Dunnett & Beale, London; Henry A. Salzer, La Crosse, Wis.; R. Maitre, New Orleans.

Good authorities express the opinion that owing to the cholera epidemic prevailing in Hamburg, few, if any, lily of the valley pips will be imported this season.

San Francisco.

A perfect "studio" of flowers is in existence on Powell street in this city, operated by that genial Englishman Tom Stevenson. The show window is par excellence, filled as it generally is with finest blooms obtainable of La France, Perles, Duchess of Albany, Papa Gontier, Brides and Beauties selected from the stocks of Pottet, Timothy Hopkins, Hale and others. A drawing card is a fountain in the window, in the basin of which gold fish sport among masses of miniature umbrella plants. In the "interest of the trade" Tom is getting this studying a process for the preservation of blooms for shipping to the east.

Pottet, of the Mission District, has a choice variety of plants in his 14 large greenhouses. He is a busy man, as every inch of ground and all details of his extensive business are attended to by himself, and yet to all callers he is the personification of courtesy.

At Menlo Park Timothy Hopkins' harvest of sweet pea seed is fast getting into shape for the market. The estimate is not an easy one, but judging by the force at work and the heaps everywhere around the yield must be away up among the tons.

Mr. Robert Armstrong, well known to nurserymen in the east, is a recent arrival here, and with his usual energy is making his presence felt to advantage.

As elsewhere, business in this section has been unusually bad, but florists and horticulturists are looking eagerly forward to the chrysanthemum season and hope that the long dull spell will soon be forgotten by the big demand for what is certainly in this locality a favorite flower with all classes. Let us hope so.

GARDENIA.

WANTED.

No. 16 Hitchings boiler and 500 feet 4-inch pipe. Must be in good condition for cash.

Address

FRED BOERNER,
Cape May City, N. J.

ROMAN HYACINTHS.

We carry a good stock of these as well as all others.

	Per 100 Per 1000
White, 1st quality, 11 to 12 ctm.	\$1.80 \$15.00
" select, 12 to 15 ctm.	2.60 23.50
" XX, 13 to 15 ctm.	3.00 27.50
Single Blue.....	2.00 17.50
Light Rosy.....	1.75 16.00
Dark Rosy.....	1.75 15.50
Single Yellow.....	4.00 35.00

WRITE FOR SPECIAL PRICES ON LARGER LOTS.

NEW YORK: **J. C. VAUGHAN, CHICAGO:**
12 Barclay Street. 146 & 148 W. Washington St.

PANSIES.

Pansies are all sold until the latter part of September; expect to have them then by the 100,000. Price, free delivery, 75 cts. per 100; \$3 per 500. You to pay express, \$5 per 1000.

CARNATIONS.

My Carnations are looking extra good this season. When you think about Carnations, think about me. Write and see what I can do for you.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell for cash, and freight prepaid in Yokohama, to every one who will favor him with an order. Catalogues on application.

The freight has to be paid in U. S. gold exchange; the goods are, however, paid for in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents Mexican silver dollars in Yokohama, freight to San Francisco charged for extra.

CYCAS REVOLUTA, 100,000 pounds, @ 6 cts. Mex. 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 8 inch pot.
RHAPHIS FLABELLIFORMIS, 25 cts. per shoot.
For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE. Robinson & Co. 50
MUSHROOMS—How to Grow Them. Falconer 1.25
MUSHROOMS FOR THE MILLION, 16 pages, Free.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers,
Philadelphia, Pa., U. S. A.

AUG. TOEFFAERT,

GHENT, BELGIUM.

Palms, Azalea Indica,

TUBEROUS BEGONIAS.

TRADE LIST ON APPLICATION.



TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the
trade only.

HENRY A. DICKER,
Philadelphia

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

**BULBS
FOR
FLORISTS
FORCING.**



PANSY SEED.

The Jennings strain of large-flowering and fancy Pansies. You want this strain of Pansies if you want the best stock all carefully grown by myself, and first-class in every respect. To all my old patrons, will say, you will find a decided improvement from last year.

Finest mixed, all colors, pkt. 25c, 50c and 1 each. Ounces, \$1.00; 5 or more ounces, \$5.00 per ounce. Large yellow, black eye and pure white, in separate pkts. 5 c. and \$1.00 each, free by mail.

Pansy plants ready Sept. 1, 10c. per 100; \$5 per 1000
E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER.
Lock Box 254. SOUTHPORT, CONN.

Mention American Florist

PANSIES.

C. SSIER, BUGNOT and ODDER STRAINS, which for size, form, substance and beautiful coloring are unrivaled. Had raised by the best judges in Europe and America. From imported seed and warranted genuine. Strong plants Sept. 1st, by mail, \$2.00 per 100; \$15.00 per 1000.

Splendid English, all colors, very fine, assorted, 75 cents per 100; \$5.00 per 1000.

F. A. BALLER,
BLOOMINGTON, ILL.

Big Pansies.

You can't miss it with the Giant Market Strain (Zingibels). It is superb. Stocky seedlings 75c. per 100; \$5 per 1000. Send your orders now.

ALEX. McBRIDE, Alplaus, N. Y.

NEW AND RARE PLANTS, ORCHIDS, ETC

A large collection of Libanone and Greenhouse Plants carefully grown at low rates. ORCHIDS: A very extensive stock. East Indian, Mexican, Central South American, etc. Hardy Perennials, Roses, Clematis, Peonies, Phloxes, Japanese Iris, etc.

New and Standard fruits: rare and beautiful Trees, Siralis, Evergreens, etc. Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Ranges, Vines, Small FRUIT, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Free Catalogue mailed on request.

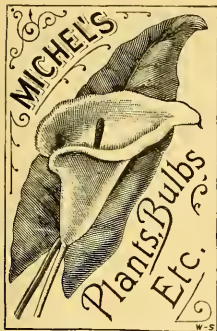
PHOENIX NURSERY COMPANY
Successors to SIMPSON & CO., BLOOMINGTON, ILL.

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT
BLOOMING VARIETIES.

All the newest and choicest in cultivation Catalogues free. Special trade rate.

WM. TRICKER, Dongan Hills, S. I., N. Y.



Mention American Florist.

Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

DIRECT FROM THE GROWER. BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.



Send for Catalogue of
**JAPAN BULBS, SEEDS,
AND SHRUBS.**
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

**STOCK THAT
SELLS WELL!**

LILY OF THE VALLEY

FROST RIPPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,

3 COENTIES SLIP, NEW YORK
Mention American Florist.

DUTCH BULBS. MRS. J. S. R. THOMSON,
Spartanburg, S. C.
Solicits consignments this season of bulbs of
Tulips, Hyacinths and Narcissus, to grow for
dealers, to be reshipped by July 1st, 1893. See
recent articles on this subject.

United States Nurseries,

THE LEADING IMPORTERS and HEADQUARTERS FOR

• • • • BULBS • • • •

From FRANCE, HOLLAND, GERMANY, BERMUDA, JAPAN, ETC.

Are filling all orders for Roman Hyacinths, Lilium Harrisii, and other bulbs for present delivery. Should any florist have been disappointed by receiving short deliveries, we can supply their wants, at early quoted prices.

NOVELTY.

DWARF CALLA LILY "ELLIOTT'S LITTLE GEM." Large flowering bulbs. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, pure white and more profuse than the common Calla, which makes it indispensable for design work.

CYCLAMEN PERSICUM GIGANTEUM SEED. Best English strain. New crop now ready.

PITCHER & MANCO,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.



Fancy.



Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a Specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CIT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

LAING'S Tuberous BEGONIAS.

BEST IN EXISTENCE.

LISTS FREE.

BEGONIAS, GLOXINIAS, GALADIVMS, GLIVIAS.

JOHN LAING & SONS

Beg to offer their Immense and Superior Stocks of above by the 100, 1000 or 10,000. Full particulars and special catalogues mailed free.

Seed, Plant, Bulb Merchants, Etc.,

FOREST HILL, LONDON, ENGLAND.

Freesia Refracta Alba.

Selected Bulbs, \$1.00 per 100; \$7.50 per 1000.

NOW READY.

Chinese Narcissus Bulbs, per 100, \$6.50.

DUTCH BULBS ready this week.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO

LILY of the VALLEY.

(Hamburg grown, best for early forcing.)

1,000 \$ 7.50

10,000 73.50

50,000 337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

ABOUT 1000 CHRYSANTHEMUMS

left, including only best varieties, cheap, or exchange for Violet clumps.

Will exchange for Roses The Bride, only good stock.

C. K. HOFFMEYER, Allegheny, Pa.

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,
56 N. 4th St., Philadelphia, Pa.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND,

ROSES, CLEMATIS, AZALEAS,

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS **P. OUWERKERK,**

P. O. Box 1845. **NEW YORK.**

When you write to any of the advertisers in this paper please say that you saw the advertisement in the **AMERICAN FLORIST.**

Orchids in Bloom in the Hicks Arnold Collection.

Among the many specimens now in flower in this collection is *Cypripedium Arnoldianum*, the plant bearing two flowers on a spike, the flowers lemon yellow in color and dotted all over with small vinous purple spots. This was the first American hybrid and was raised in two years—the quickest time on record. The grand *C. Morganiae* Burfordense, much superior to *Morganiae*, is also in bloom, and the noble *C. macropterum* is at its best. There are also to be noted some very dark and light types of *Dendrobium Phalaenopsis* *Schroderae*, *Dendrobium nobile nobiliss*, a very dark form of *Miltonia Morelana*, two fine specimens of *Cattleya Dowiana*, a grand specimen of *Angracum churruum* with five enormous flower spikes, *Lelia anceps alba*, *Dawsonii* and other varieties and the beautiful *Cologyne Massangana* now coming into bloom.

Jos. MANDA, JR.

Not the Highest Score.

My attention has been called to a note by K. in the *FLORIST* for August 25, in which 197 is given as the highest score made at the convention bowling matches until Mr. Doran put up 204 at Washington. I beg to remind K. that at Boston J. A. Penman, of the New York team, made a score of 234, and this still stands as the banner score made at the convention bowling matches. C. H. ALLEN.

[Mr. Allen is correct. See page 41 of the *FLORIST* for Sept. 1, 1890.—Ed.]

Awards at Washington.

The following was omitted from the report of the cut flower committee at Washington: To W. H. Elliott, Brighton, Mass., for *Asparagus plumosus nanus*, a certificate of merit.

WM. J. STEWART, Secretary.

The Bowling Scores.

In our report of the Washington contest the first score of Mr. A. Gude, of the Washington team, should have been 152 instead of 151, and the first score of the Washington team should have been 770 instead of 769.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77.

UPPER SANDUSKY, O.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.
A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Quince, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.
G. C. ABEL & CO., P. O. Box 920, New York.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 " 70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

Mention American Florist.

ROBERT B. YOUNG & CO.,

AUCTIONEERS OF

Plants, Bulbs, Shrubs, Orchids, Etc.,

205 GREENWICH STREET, NEW YORK.

Our regular sales of Palms and Ornamental Plants for present season will begin the **third week in September**. Special days have been set apart for the sale of Orchids.

CATALOGUES ON APPLICATION.

ASTILBE JAPONICA VAR. GRANDIFLORA.

"THE PEER AMONG FORCING PLANTS."

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA.

"The latest blooming and most fragrant of its family."

Immense stock of splendid plants. Special rates on application.

☞ Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) THE READING NURSERY,

• JACOB W. MANNING, Proprietor. • READING, MASS.

Mention American Florist

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

Established 1835.

ROGERS NURSERIES.

Oldest in the State.

"HAVE YOU A BEARD?"

I mean Turkey Beard (*Xerophyllum aspidioides*). This is a novelty among hairy personals which you can sell in quantity. Orders looked now for immediate fall delivery \$2.50 per 100. (Terms to suit purchasers, or 12 1st, upon satisfactory reference). Don't forget our stock of *Strawberries*, *Asparagus*, Etc.

Isaac C. Rogers.

ROGERS NURSERIES, MOORESTOWN, N. J.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

BIG! BIG! BIG!
BIG WHAT?

Big Daisy Snow Crest.

BIG plants, BIG roots, BIG leaves, BIG
long stems, BIG flowers, BIG crop, BIG
sales, BIG profits, BIG satisfaction all round.
There will be a BIG lot wanted. Order
early and get a BIG start and help supply
the BIG demand. 25,000 now on hand,
\$1.50 per doz.; \$10 per 100; \$80 per 1000.

200,000 would scarcely suffice to supply
all who ought to have it with a few plants
to start with. Remember when we are sold
out we are done, there has been no substi-
tute found yet for this Daisy. SNOW-
FLAKE, good as it is, can not compare with
it. A few hundred of the latter still on
hand, \$1.50 per 100; \$12.00 per 1000.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E. NEW YORK.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

MICHIGAN

Orchids, Ferns, Shrubs and
Trees, Bog Plants and
Aquatics, for parks, flower
gardens, rockeries, bogs,
ornamental waters and carp
ponds. The World's Columbian Exposition
buys them. Retail, Wholesale and Carp Pond
Catalogues, each free.

WILFRED A. BROTHERTON,
ROCHESTER, MICH.

Please mention the American Florist
every time you write any of the
advertisers on this page.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's
crop of the choice Sweet Pea varieties, named and mixed, that
we grow. Please send for trade list.

FOR IMMEDIATE ACCEPTANCE WE OFFER

Calla Lily Bulbs, 4 to 5 inches in circumference, \$30.00 per 1000. Prices
on larger sizes on application.

Freesia refracta alba, good flowering bulbs, \$3.00 per 1000.

Marie Louise Violets, strong runners, free from disease, \$20.00 per 1000.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

Adiantum Capillus Veneris.

The most profitable variety for the commercial florist; for
reasons why, see FLORIST issue Sept. 1st, page 119.

The extraordinary demand for this variety has made
it impossible for us in the past to fill all orders on time.

WE NOW have a fine lot in splendid condi-
tion, ready for immediate shipment.

PRICE, \$8.00 PER 100.

A. Cuneatum, 5-inch pots, splendid specimens, 50
cents each; \$5.00 per dozen.

JOHN IRVINE CO.,

• • • • • **Bay City, Mich.**

G. BENARD, Orleans, France.

Established 1849.

ROSES AND YOUNG PLANTS A SPECIALTY.

Particular offer of fine plants in large quantities.

ROSES ON OWN ROOTS, HYBRID, ROUBON, ETC., such as	Per 1000
La France, Ulrich Brunner, Captain Christy, etc.	\$ 40.00
On own roots, or grafted on Dog rose, Tea and Noisette, such as Marechal Niel, Marie Van Houtte, Catherine Mermet, etc.	\$50.00 to 55.00
Hermosa, Common Bengal, etc., 1st choice	17.50
On own roots, extra choice	25.00
Cranouil-Superieur, Eugene de Beauharnais, etc., 1st choice	19.00
Extra choice	30.00
Madame Laurette de Messing	40.00
Mlle. Augustine Guineleuer (or White flowering France)	35.00
Climbing Roses, assorted, my choice of varieties, such as Ruga, Felicite, Perpetue, etc.	15.00

RHUS COTINUS , 1 year	3.50
WHITE MULBERRY , very fine, 2 years transplanted	2.50
DEUTZIA GRACILIS , 2 years	3.50
HYDRANGEA PANICULATA GRANDIFLORA , 2 years	13.00
OLEA LITIS VITIOLLA , 2 years	4.00
LILAC CHARLES X , 2 years grafted	22.00
In pots, 1st choice, for forcing, \$17.00 per 100; same, extra, \$20.00 per 100	
Fruit Tree Stocks in large quantities: Apple, Cherry, Plum, Quince, etc. For further information apply to	

C. RAUX, P. O. Box 2938, 296 Pearl Street, NEW YORK,

or **E. BENARD, P. O. Box 620, SAN DIEGO, CAL.,**

Sole Agents for the United States and Canada.

General Catalogue to be issued in September, will be sent free to all applicants.

MARSCHUETZ & CO.,

FLORISTS' SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

56 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon
application.

Bulb Growing in the South.

We are in receipt of a communication from Mrs. J. S. R. Thomson, of South Carolina, who notes with satisfaction the interest now taken in the above subject. The prevailing idea is the cultivation of these plants for the sale of bulbs, rather than flowers, but our correspondent speaks more fully of the flower growing side of the question. They bloom with extreme profusion under the simplest conditions of culture. Mrs. Thomson speaks of making one shipment to a New York firm consisting of 5,000 Paper White Narcissus, for which she received \$30—\$6 a thousand, or 60 cents a hundred. We doubt whether many of our bulb growers would regard this as highly remunerative, even for flowers grown in the open air. Moreover, we are in a position to state, upon excellent authority, that the flowers in question fell far below the market requirements for general excellence. Field grown Paper White narcissus always lack the absolute purity and delicacy of texture seen in those grown under glass, and in too many cases they are also deficient in stem. We have inspected several consignments of southern bulbs in New York, but have failed so far to meet with any which could compare with those grown under glass. Unless there is a decided change in the tastes of flower buyers northern growers need not fear any dangerous competition from the southern outdoor bulbs.



With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St.,
Tress & Mangr. Boston, Mass.

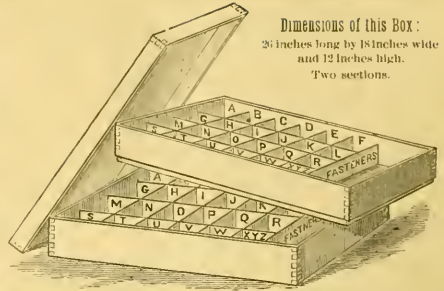
Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

Mention American Florist.

Dimensions of this Box:

26 inches long by 18 inches wide
and 12 inches high.
Two sections.



AGENTS:

A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Ferry & Co., 33 Warren St., Syracuse, New York.
E. Radfman, Philadelphia, Pa.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Summers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jaw. Vick, Rochester, N. Y.
C. A. Kuehn, 1123 First St., St. Louis, Mo.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.

CYPRESS GREENHOUSE MATERIAL



HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

SASH BARS

VENTILATORS, RIDGES, GUTTERING
AND LUMBER.

NO WIDE-AWAKE FLORIST need be told
it will pay him to use SASH BARS,
etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.
Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.

CATALOGUE PRINTING.
ELECTROTYPING.

Done with expert ability for Florists
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIÈRES

we have ever placed before the trade at this season. ONE HUNDRED different
shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise,
Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.,

37 & 39 Murray Street, NEW YORK.

Do You Want

FENCES (Wire, Iron & Steel) **VASES** (Reservoir & Centre Drainage)

CRESTINGS

LAWN ORNAMENTS - CHAIRS, SETTEES &c. &c.
STABLE FIXTURES, WIRE WORK NETTINGS &c.

Send For No. 31 Address **BARBEE WIRE & IRON WORKS,**
Catalogue 44 & 46 DEARBORN ST. CHICAGO, or LaFayette Ind.

GOOD, CLEAN
SPHAGNUM & MOSS,

\$1.00 PER BARREL.

Or in bulk at \$12.00 per 100 cubic feet.

WM. F. BASSETT & SON, Hammoncton, N. J.

IMPROVED GLAZING.

Zinc Joints for putting glass without laps. No leakage. No sifting of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps save enough glass to pay for the zinc. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for samples and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O

THE EVANS CHALLENGE VENTILATING APPARATUS.

WITHOUT A RIVAL EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE
FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb of roof.
- 5th. Give the thickness and width of rafters or babb bar.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL GEM WIND ENGINE GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no clanking of towers, no hinged or frail-jointed towers and practically no attention, yet is more durable than other Wind Motors that require all this and more unique finish. The GEM TOWER combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the **Halladay Standard Pumping and Geared Wind Mills, the Standard Van Ness, and E. S. Solid Wheel Wind Mills, Pumps, Tanks, Horse Hay Tools, &c.** No other company offers equal inducements. Send for Catalogue and Prices.

U.S. WIND ENGINE & PUMP CO.,
BATAVIA, ILL., U. S. A.



No More Leaky Sky Lights
Or Shipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.

OUR
HALF-TONE *
* ENGRAVINGS

J. MANZ & CO., Engravers,
107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself
Publishers AMERICAN FLORIST.

You will benefit THE AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

KILLMRIGHT

REGISTERED
NON POISONOUS INSECTICIDE

DEATH TO INSECTS MILDEW LIFE TO TREES, PLANTS, FRUIT, FLOWERS.

PRICE 2lb. CAN .50 5lb. \$1.20 10lb. \$2.25 20lb. \$4.00

STOTT DISTRIBUTER
DIAMETER 4" SECTIONAL VIEW LENGTH 30"

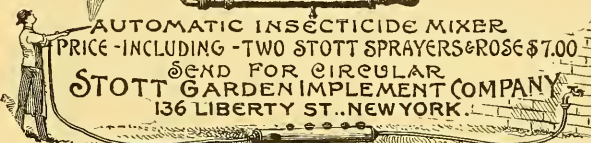
INSECTICIDE IS AUTOMATICALLY MIXED.
SAVES TIME AND MONEY.

PRICE IN COPPER 2 CELL \$9.00-3 CELL \$10. 5 CELL \$12.

THE "STOTT" PATENT SPRAYER.

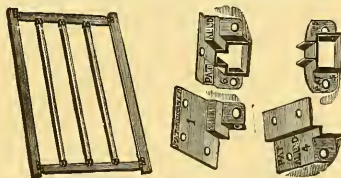
BEST
SPRAY LIKE MIST, NEVER CLOGS, ALWAYS IN ORDER
STOTT PAT. SYRINGES.

AUTOMATIC INSECTICIDE MIXER
PRICE - INCLUDING - TWO STOTT SPRAYERS & ROSE \$7.00
SEND FOR CIRCULAR
STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST., NEW YORK.



SMITH & WEBSTER,
MAKERS OF
GREENHOUSE PIPE,
FOR HOT WATER AND STEAM,
193 Lake Street, CHICAGO, ILL.

Mention American Florist.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.
THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.



Pat. 1882, '85, '86,
'88, '90, '91.
ARMORED
SPHINCTER GRIP
SPRING STEEL GALVANIZED

**FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,**
And for any and every purpose for which a hose can be applied.

Sizes, 1/4-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mfrs and Owners of all the **Sphincter Grip Armored Hose Patents,** 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

PERFECT DRAINAGE BENCH TILE. Awarded HIGHEST PREMIUM
Wherever Exhibited.
Used by ALL leading growers and horticultural builders.
For circulars, etc., address
W. P. WIGHT,
UPLAND GREENHOUSES. MADISON, N. J.

Glazing Without Putty.

Some three years ago we were glazing a lot of cold frame sash, and as we had more or less trouble from the sash getting leaky from rough handling, the putty working out and causing re-glazing every year or two, we concluded to try a little experiment, and the following method was adopted with very satisfactory results: We first used a string of common round lamp wicking, stretching it tightly the whole length of the groove in place of putty, fastened each end with glazing tacks to keep it in place while laying the glass, and fastened the glass in, making small laps, then we filled in the sides with a mixture of oil, putty and paint, one third of each, by measure, not weight; we use a putty ball for distributing the mixture, the mixture running down and in to the wicking keeps it from getting rotten and at the same time forms a perfectly tight joint. We have used these sash for three years and all the repairs needed was to run them with the putty ball and paint the wood work once in two years; they are as tight to-day as the day they were glazed. This may not be anything new to some of your readers, but we never saw or heard of its use elsewhere, and it may be of some benefit to some one, so we give it for what it is worth. We shall glaze a house by the same method next season as an experiment, as we feel confident it will give the best of satisfaction, besides being a great saving in putty and labor in putting on.

F. W. BEACH.

Butted Glass.

I would like to ask readers of the *FLORIST* who have tried butted glass whether they would advise others to adopt that system of glazing. Or is it best to stick to the old way.

JAMES.

Piping.

Replying to the query of P. N., in piping don't fall near your boiler after you begin to rise, and don't rise near your boiler after you begin to fall.

F. D. B.

Do you WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

THE STANDARD Ventilating Machines

Received best awards at
BUFFALO, N. Y.
BOSTON, MASS.
TORONTO, ONT.

Send for Catalogue
and prices.

E. HIPPARD,
Youngstown, O.

GREEN-HOUSE HEATING.

Meyers & Co.
1173 S. Ninth St.,
PHILADELPHIA.

Send for catalogue
and price list.

CARNATION CULTURE;
BY
L. L. LAMBORN.
Third Edition, containing all available information on the subject NOW READY. Price, \$1.50
mail. Address H. E. CHITTY, Paterson, N. J.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa.

Randolph Ave. & Union St., Jersey City, N. J.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERMEN
and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

"SOMETHING NEW UNDER THE SUN,"
IS THE "NEW DEPARTURE."

For you

never before

saw a Saw that was
not a Saw, or a VENTILATING APPARATUS for so little money.

Send for our TREATISE ON VENTILATION and learn all about it. And, if you need the best Boiler in America, send for catalogue of our "CHAMPION."

J. D. CARMODY, Evansville, Ind.

BUTTED
GLASS
SASH
BARS.

Does away with all
puttying and trouble
in replacing broken
lights of glass. We
have been busy filling
orders for this
kind of a bar, in

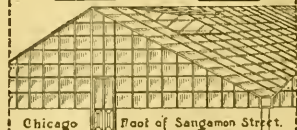
Clear Cypress.

Shall we hook your
order next?
Enclose 2c. stamp for
sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgr., LOCKLAND, OHIO.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREEN-HOUSE RAFTERS;
VENTILATORS, HOT-BED
SASH, CUTTING & ETC.



Chicago

East of Sangamon Street.

FLOWER POTS.

Standard Flower Pots, Machine Pots, Hand-Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

FIRST-CLASS GOODS. LOWEST PRICES.

Send for price list. Give us a trial. We will sure
ly satisfy you.

BOWMANVILLE POTTERY,
Bowmanville, Chicago, Ill.

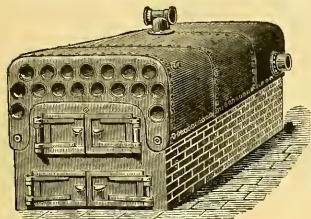
ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

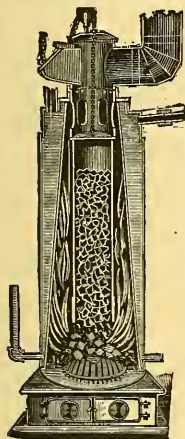
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

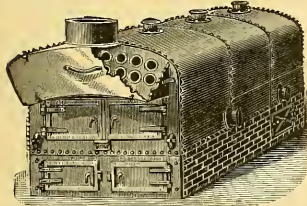
WORKS, 56th & WALLACE STREETS.

CHICAGO.**THE WILKS HEATER,**
FOR HEATING

GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**

41 to 55 Erie St., CHICAGO.



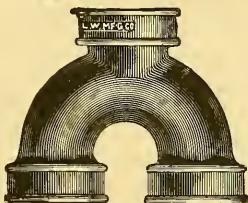
Boilers made of the best of material, shell, sheet, and heads of steel, water space all around (front, sides and back). Write for information.

Mention the AMERICAN FLORIST
when writing advertisers on this page.**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

231 Amity Street, FLUSHING, Queens Co., N. Y.

Greenhouse Pipe and Fittings

Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

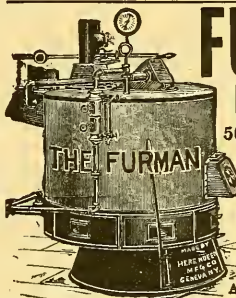
GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

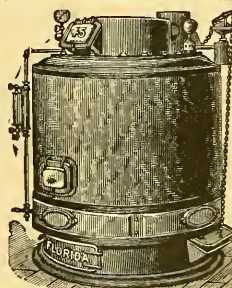
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**FURMAN BOILERS****Economical — Substantial — Safe!**

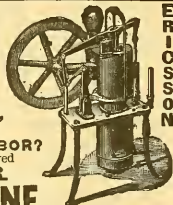
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Stanchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address **HERNDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.****Save Your Coal** and **INSURE** Your **PLANTS & FLOWERS**
STEAM & HOT WATER
FLORIDA HEATERS
FOR GREENHOUSES.

Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water.

THOUSANDS AND THOUSANDS IN USE.

Has a Magazine Feed. Throws out No Gas. Saves 25 per cent in fuel. Gives a uniform heat day and night. Fully warranted in every respect and guaranteed to give satisfaction. Reliable Agents in all the leading cities and towns in the United States. Send for new catalogue. Address

PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER
OR
ERICSSON
HOT-AIR
PUMPING ENGINECatalogue with full particulars, sent on application.
DE LAMATER IRON WORKS, 21 CLARLANT ST., NEW YORK, N. Y.**For Your**
GREEN HOUSE,
ROSE HOUSE,
NURSERY,**ERICSSON****D. H. ROBERTS,**159 & 161 S. Fifth Ave., **NEW YORK,****NATURAL GAS MADE GLASS**for **ROSE HOUSES, CONSERVATORIES, Etc., Etc.**

Our Glass received the Highest Award at the Boston Convention of the S. A. E.

Index to Advertisers.

Abel C & Co.	138	McFarland J H.	135
Anchura Nurseries.	138	McFarland J H Co.	135
Baker F & A.	138	McKellar & Sperry	135
Barbee Wire & Iron	138	Maclean A S.	135
Wicks	140	Mann J & Co.	135
Barnard W W & Co.	137	Marling Hart & Co.	132
Bassett Wm F & Son.	140	Marshall & Co.	139
Bayersdorfer H & Co.	138	Meyer John C & Co.	134
Wicks	139	Miller Geo & Seed Co.	133
Benard C.	139	Miller Geo.	133
Benzer H H & Co.	139	Mohead G. L.	139
Bock Wm A.	132	Moninger Jno C.	140
Boehmer Louis.	139	Moon Samuel C.	137
Bonsell Jos E & Son.	139	Moore Patrick L.	133
Boston Letter Co.	140	Myers & Co.	142
Bowmanville Pottery.	142	National Hot Water	134
Brazier L R.	137	Heater Co.	134
Brauer & Richter.	134	Olson M.	135
Brickerton W A.	139	Onwolkoff P.	135
Brown & Canfield.	135	Peck & Sutherland.	135
Burns & Raynor.	135	Pierce & Coleman Co.	141
Butrow J G.	135	Pennock Saml T S.	135
Buxton Geo E.	132	Phoenix Nursery Co.	136
Carman R W.	142	Pierce Butler & Pierce.	143
Carmody J D.	142	Pierston A N.	135
Chitty H E.	142	Pierston F R Co.	137
Coles W W.	135	Pitcher & Mandin.	137
Cook John.	134	Posthumus Bros.	134
De Cock Jules.	134	Pynart Edw.	134
De Lamater Iron Wks.	143	Quaker City Mfg Wks.	141
De Suck L.	134	Randall A L.	139
Detroit Heating and	134	Raxon C.	139
Lighting Co.	134	Rause Bros.	139
Dwaine's Boiler Wks.	143	Reading Nursery The	138
Dietrich A & Co.	142	Reck John.	138
Wilson J L.	132	Reed Wm B.	138
Dodge & Conard Co.	138	Roberts D H.	143
Dreer H A.	136	Rochers Theo.	135
Eames H W & Co.	141	Rogers Nurseries.	138
Eckhardt Theo.	137	Rolker & A Sons.	139
Ellott W H.	134	Sander & Co.	134
Ellison Wm.	134	Saul John.	134
Field S B.	134	Schultz F W O & Co.	141
Cardinal J & Co.	140	Schultze Bros.	133
Cassier J M.	139	Schulz Jacob.	133
Gibson J C.	139	Seolay John A.	144
Grainger & Co.	139	White F Sons.	138
Hammond Benj.	132	Sheridan W F.	139
Hancock Geo.	132	Sherwood Hull Sur.	139
Hart James.	139	Schmidt & Wadley.	139
Hartford & Nichols.	133	Situations, wants.	132
Herdenden Mfg Co.	143	Skinner Colln.	132
Herr Albert M.	140	Smith C A Floral Co.	145
Hews A H & Co.	142	Smith Nathan & Son.	132
Hill E G & Co.	142	Smith & Webster.	141
Hippard E.	134	Spencer Wm H.	133
Hitchings & Co.	144	Steffens N.	138
Hoffmeyer C K.	139	Stott Garden Imp Co.	141
Hooker H M Co.	138	Streby S O.	138
Hulsebosch Bros.	135	Sunderbruch H L.	135
Hunt E H.	135	Swayze Edw.	132
Hunt M A.	135	Thompson Mrs J S R.	137
Hunter & Purdy.	135	Toeflaert Aug.	136
Irvine John Co.	139	Tracht J A & Son.	132
Jackson A T.	133	Tricker Wm.	136
Jagd & Co.	132	U S Wind Engine &	136
Jennings E B.	132	Pump Co.	136
Johnson Fannie.	134	Vaughan J C.	133
Joosten C H.	137	Waterbury Rubber Co.	141
Kennett Bros.	139	Weathered Thos W.	144
Krausell Bros.	143	Whitellin Pot Co.	142
Kuehn C A.	135	Whitehead Geo B.	132
Laird John & Sons.	137	Wight W P.	141
La Roche & Stahl.	135	Wilkes S Mfg Co.	143
Little W S & Co.	133	Wisconsin Flower Ex.	134
Lockland Lumber Co.	133	Wolf L Mfg Co.	143
	140	Wood Bros.	133
	142	Young J M & Co.	140
	132	Young Robt B & Co.	138
	132	Young Bros.	135
McBride Alex.	139		
McCarthy S P Co.	135		

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

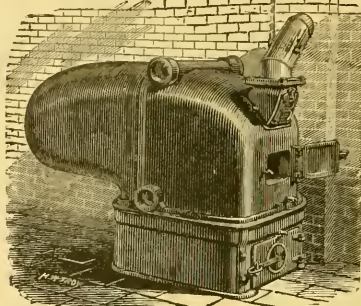
Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

*Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.*

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention American Florist.



Thos. W. Weathered's Sons,

... GREENHOUSE ...

HEATING AND VENTILATING APPARATUS.

HORTICULTURAL BUILDERS.

244 Canal Street, NEW YORK.

JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

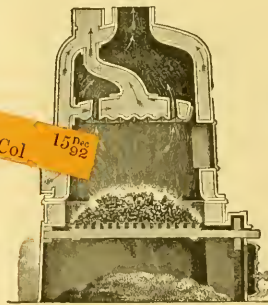
— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

*Estimates of cost given, and Illustrated Cat-
alogue furnished on application.*



Do YOU WANT a list of the
very superintendents? You want
such a list in our new trade directory and
reference book.

NEW HAVEN, CONN.—Smith T. Bradley,
the Atwater street florist, is adding an-
other house to his plant. It will be de-
voted exclusively to carnations.

FREMONT, WASH.—The Woodland Park
Floral Co. has been building three new
houses, a rose house 110x20, a carnation
house 110x16, and a bulb house 50x12.

THE GREAT FUEL SAVER

THE CELEBRATED

SPENCER

HOT WATER HEATER

ITS FIRE HOLDING
QUALITIES UNEQUALLED.

ESPECIALLY ADAPTING IT TO

GREENHOUSE HEATING.

DETROIT HEATING AND LIGHTING CO.

Lieb and Wightl Sis., DETROIT, MICH.

NEW YORK, 26 Liberty St. CHICAGO, 88 Lake St.
BOSTON, 42 Pearl St. ST. LOUIS, 414 N. Broadway

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

• The **SPENCE** HEATER •
• HOT WATER FOR HEATING •
• BY HOT WATER CIRCULATION. •
• NATIONAL HOT WATER HEATER CO. •

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

Please mention the AMERICAN FLO-
RIST every time you write any of the
advertisers on this page.

ROSES. Our TRADE DIRECTORY contains the
date of introduction and the name
of the introducer of all the roses in commerce in
America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, SEPTEMBER 15, 1892.

No. 224

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS

Mass Hort. Society exhibition	145
The florist's window	146
Proper names for colors	146
Vase of wild flowers (with illus)	147
Miscellaneous notes	147
The Columbian Exposition	148
Plant notes	148
Map World's Fair grounds	149
New York	150
Boston	150
Philadelphia	150
Toronto	151
Calceolaria bench (with illus)	151
Detroit	151
Chicago	154
The seed trade	156
Baltimore	158
St. Louis	160
Greenhouse gutters	162

Philadelphia.

The establishment of H. Bayersdorfer & Co. was badly damaged by fire Monday night last. The firm had all their force working at night being very busy, and those on the fourth floor of the building narrowly escaped with their lives. The firm is now located at No. 19 North Fourth street, where orders are being filled. A large lot of goods from Europe were en route and are expected in a few days. The loss is estimated at \$10,000.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Massachusetts Horticultural Society.

ANNUAL EXHIBITION OF PLANTS AND FLOWERS.

The annual exhibition opened on September 6 and lasted four days. It was, as usual, a magnificent display of decorative and ornamental foliaged plants from the many fine private collections in this vicinity, cut flowers of garden blooming plants and aquatics. It was like its predecessors in the high quality of the plant exhibits, the very small public attendance and the inadequacy of the halls to properly display the specimen plants. It was an improvement on most of its predecessors in that the weather throughout was superb, the cut flower collections far superior to the average and the palms and other decorative plants singularly perfect in every point and uniform in size.

The tanks and tubs for the aquatics, abominable concerns at best, were out of place in the upper hall. The lower hall would have been the best location for them. They marred the beautiful picture otherwise presented by the splendid arrangement of the plants with which the upper hall was filled. The groups were marvelous exhibitions of taste and skill in arrangement. They consisted of palms, cycads, aralias, tree ferns, crotons, dracaenas, caladiums, ferns, lycopods, etc., the largest contributions coming from H. H. Hunnewell, J. H. White, G. A. Nickerson, N. T. Kidder, John L. Gardner and Dr. C. G. Weld, with smaller lots from W. H. Lincoln, A. Galbraith and Mrs. A. D. Wood.

In Mr. Hunnewell's group the magnificent specimen of *Licuala grandis*, recently illustrated in the AMERICAN FLORIST, was a prominent object. The central plant in Mr. Nickerson's group was a large and perfect *Kentia Belmoreana*, and conspicuous throughout were his crotons, which are always a special feature with him. The caladiums and crotons from N. T. Kidder were finely colored and one of the handsomest plants in the show was a big specimen of *Nephrolepis rufescens tripinatifida*. The groups of adiantums and other ferns from Messrs. Kidder, Nickerson, Weld and White were all very fine.

Shady Hill Nursery Co. and W. C. Strong each contributed a large and interesting group of hardy coniferous trees not natives of New England. These collections, however, were somewhat out of place among the banks of exotics and would have looked better by themselves on the stage or in the vestibules.

From Pitcher & Manda came a small group of new and rare plants, one of which, *Mormodes pardinus unicolor*, was awarded a silver medal. It was a handsome specimen bearing two large racemes of flowers. In this exhibit were also new sorts of helianthus and heliopsis and an asparagus with glaucous foliage and much more rapid growth than plumosus,

which Mr. Manda believes to be a new species.

The aquatic plants were the great attraction of the show and it was about these that the crowd, when there was any, congregated. It was evident from the interest displayed that aquatics are rapidly becoming very popular. An exclusive exhibition devoted to these interesting plants may not be very far into the future and is no more visionary than the proposition of a special chrysanthemum show would have been a few years ago. It would create a sensation, it would give scope for entirely new features in the exhibition line and it would pay.

The principal displays of aquatic plants were from Dr. R. H. Faunce, Benj. Grey and Dan'l D. Lee, who were awarded first, second and third prize respectively. Dr. Faunce received a certificate of merit for *Nymphaea Laydekeri rosea*, a beautiful little gem distinct from anything of the kind ever seen here. Among the most admired flowers in his collection were *Nymphaea gigantea* and *Nelumbium Kermesinum*. Benj. Grey exhibited a hybrid *Nymphaea* from *scutifolia gigantea* and *gracilis*. It was awarded a certificate of merit and was christened *Nymphaea Greyae*. He also received honorable mention for a sport from *alba candidissima*, creamy in color shaded with light pink.

The displays of cut flowers, especially those in the hardy herbaceous section, were very fine, the weather having been quite favorable for them. As usual at this time of the year the composite family was extensively represented, asters, solidagos, boltonias, rudbeckias, silphiums, helianthus, etc., being shown in large quantity and variety. The principal exhibitors were Harvard Botanic Garden, Shady Hill Nursery Co., J. W. Manning and N. T. Kidder. All were carefully named, therefore very interesting, but Mr. Manning's system of printed cards giving the botanical name, common name and native locality in plain letters is worthy of special commendation.

Zinnias, tropaeolums, tuberous begonias, gladioluses, penunias, Drummond phloxes, dahlias, cannas, etc., were all shown in large quantity by many exhibitors. The display of French cannas from Fisher Bros. & Co. was far ahead of anything in the canna line ever seen here. Among the prominent visitors to the exhibition were Mr. A. Veitch of London, Mr. A. Ingram of London, Mr. Benj. Durfee of Washington and Mr. W. A. Manda of Short Hills, N. J.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

The Florist's Window.

Window decoration is such a necessity, both for gaining and retaining trade, that the subject is well worth study, even in the dead season. During the winter arrangements of cut flowers prevail, but there are many months in the year when it is impossible to keep many flowers in that situation owing to unfavorable temperature. At such times too many store windows have a makeshift and deserted appearance, which might readily be obviated by a proper selection of plants.

Again, carelessness in the arrangement of the flowers used will give an extremely tasteless look. A background of sickly moss, with a few unsightly jars of flowers stood about hap-hazard, will naturally lead one to suppose that the same lack of daintiness will characterize the florist's work generally.

As a groundwork for all arrangements nothing excels the little lycopodium commonly seen; when in 3-inch pots it can be massed closely together, forming a carpet of living green in the bottom of the window. This lycopodium alone, with a mass of palms or ferns at the back and a single vase of some striking flower in the center, will make a thoroughly effective window when good flowers are scarce. Foliage alone is extremely restful in hot weather and gives opportunities for plenty of variations. A pretty window noted contained simply a carpeting of lycopodium with the usual background of palms; the only relief was an irregular group at one side, consisting of *Papyrus antiquorum*, *Darlingtonia Californica* (the Californian Pitcher Plant) and *Anthurium Andreanum*. There was nothing extraordinary about the window, but everyone turned to look at it.

The common wild Pitcher Plant (*Sarracenia purpurea*) is used to good effect in the window; being odd and unusual it attracts a second look. Some of the New York florists have used it this summer with good effect. A few pond lilies on a moss background, with a group of *sarracenia* and fancy leaved caladiums, is a good combination; a few *dionaea* might be added.

In the winter, when flowers last well, there is an opportunity for fine effects, and the florist must depend on skillful arrangement or rarity of material for a striking window. Sometimes he secures this by massing one variety only; for example, a showy Easter display was made by filling two large windows entirely with blooming *genista*, ranging from huge bushes 12 feet high down to plants in 4-inch pots. No other flowers were visible, and this golden mass commanded much attention. Equally striking, and more artistic, was a window where the *genista* simply made a background for *Bermuda lilies* in pots.

Araucaria excelsa is now very largely used in florists' windows, shapely plants about two feet high being a good size. A summer window recently noted had a carpeting of lycopodium, with a screen of palms at the back. A few *araucarias* were dotted here and there through the moss, while about a dozen *Odontoglossum citrosomum* growing in baskets were hung from above, the pendent spikes of bloom showing finely against the green.

A few orchids, either plants or flowers, will always make an attractive feature. Still, there are many places, even large cities, where orchid flowers can not be sold except at a loss, and naturally there is little inducement to grow them. However, some of the cool house *cypripediums*, *odontoglossums* or *oncidiums* are

no trouble to grow, and they will add to the attraction of the window amazingly. In New York where there is more demand for these flowers they are a familiar feature in window decoration. A beautiful arrangement seen there was a combination of mauve and white. The window was bedded in *adiantum*, with a heavy border of violets. In the center was a large vessel draped with asparagus and ferns; a broad sash of mauve ribbon was tied around it in a huge bow, with several spikes of *Oncidium ornithorychum* caught in the bow. I have a strong impression that the vase itself was a small barrel, but its humble identity was lost in the draping. It was filled with a loose mass of *cattleyas* and *lalias*, lightened by a little fern, and the whole window was the very daintiest arrangement one could conceive.

In the spring bulbs forced in flats may be used to great advantage, being placed closely together so as to make an entire bed of bloom, sloping up to the back. Again, these bulbs may be shifted into flat square baskets with high handles bearing a ribbon bow to harmonize with the flowers. Either in the flats or baskets narrow ribbon of the harmonizing color should be tied loosely around the plants, so as to keep them from sagging over. A window filled with pink and white tulips and hyacinths is very showy; they are grown in flats specially for this purpose. When cut these bulbs are always best displayed in the mass, loosely arranged in a big bowl, of course without any admixture of other flowers or foliage. The same may be said of carnations.

Forced flowering shrubs or any unusual plant give a good touch to the windows. *Gloxinias* make a good display, and so do good cyclamens. The same stock plants may be varied indefinitely if a little taste is used in altering the arrangement or the variety of flowers used. Ferns in baskets are excellent for this purpose, while the large *davallias* or *nephrolepis* make a desirable change from palms. No florist should rest with the idea that flowers alone, with perhaps a few scrub plants, will give him an attractive window. He must have good plants enough to give him change in this way. Another point to be observed is the use of attractive vessels for containing flowers. They need not be expensive, but they should be attractive in form and color. Retired pickle bottles and sad gray earthen jars may be a little cheaper at the start, but in the long run decorative vessels will pay the best. A man whose business depends on his good taste and decorative skill can not afford to be slovenly in any of his belongings, and the prettier his place of business is the more readily will people believe that equal taste governs his professional skill.

EMILY LOUISE TAPLIN.

Proper Names for Colors.

THE JACQUEMINOT AND NIPHETOS ROSES.

It is a popular belief among many that the Jacqueminot rose is crimson in color. Nothing is further from the truth; it is a crimson rose if you will, but it is far more than that, so much more that the crimson part of it represents not more than 30 per cent of its true color. If we will look into the heart of the Jacqueminot we will see there an intensity of red color, which is entirely different from the deep bluish red we call crimson; if we look upon the back of its petals we will see crimson diluted with a whitish tinge. Before we call a rose crimson in color we should know exactly what crimson is.

Crimson is one of the names for red color, but unfortunately it is most generally applied to the dark reds. Red is either pure in character, i. e., free from yellow or blue, or it is diluted with white or darkened with black. It may be also qualified by a mixture of any or all of these outside elements; but truly speaking the genuine red is free from all outside influence whether it be yellow, blue or black. Consequently crimson is not a true red, nor is scarlet or magenta. But crimson is a bluish red, and not necessarily a dark red, because it is possible to produce dark red without any admixture of blue. I should say, therefore, of the Jacqueminot that it is a deep red rose, not a crimson one, because in no wise is the latter predominant in its composition, and besides, in the heart of the rose the reflex color smacks strongly of a red qualified with some yellow. The Jacqueminot is a rose again of composite color. The petals on the reverse side are crimson diluted with more or less white, the inner petals nearest the center of the flower are strong pure red inclined toward the yellow tone, the outer petals are influenced by crimson tones, yet are in the main of a pure intense red color.

We have nothing to do with the Jacqueminot after it has passed its prime. Then its color tone has undergone a complete change, and it is of no consequence to us what that change has brought forth in point of color. We have to deal now only with the true color of the rose in its normal condition. When I say a deep red rose I do not mean a dark red rose. Darkness implies more or less shadow, total darkness, blackness. Nature, I believe, does not mix black with any of her colors. So unless the Jacqueminot has black in its composition it can not be dark in any respect. Deep red is a term with quite another significance. It means intensity without obscurity, rich redness without shadowy redness.

I have an intense red poppy in my garden, but with a black center (no mixed black, a splotch of it for the sake of contrast). This red poppy could be described as a deep red poppy, exactly as I have described the rose as a deep red rose, but I should have to temper my description of the poppy by one qualifying addition, i. e., tintured with yellow. This makes all the difference in the world, and my poppy beside the rose would show itself deep red with an entirely different aspect.

Now, in exactly the same respect the relation of crimson to the Jacqueminot is about the same as white to the Niphetos. The latter is not really a white rose in the true sense of the term. One careful look at the Niphetos will discover a considerable amount of green mixed with its white. And the white itself instead of being pure in tone is yellowish. To prove this clip off two or three petals and spread them out on a piece of pure white (not cream laid) writing paper. The result will be surprising, and we will wonder at the apparently white rose showing itself in a fair test so yellow looking. I should call the Niphetos, therefore, a greenish yellow white rose. And it is not a rose of composite color so distinctly marked as the Waban or Jacqueminot. The tone of the greenish yellow white is even in most specimens I have examined. The impression which is retained in my memory of the Niphetos white is rather of the delicate semi-transparency which characterizes wax or alabaster. Its color effect does not impress one with its composite character, but rather with its dreamy luminosity. Either under artificial light or daylight this character of



VASE OF WILD FLOWERS.

the color is retained. I believe these two descriptions of the colors of two roses which are marked in their individuality are pretty near the truth, though they are dependent upon what might be called impressionism rather than analysis. Still, after careful examination I can not think that we can describe the colors more accurately than these specific terms I have employed do. After all the truest part of anything we happen to see is that part of it which produces the profoundest impression on our minds.

F. SCHUYLER MATHEWS.

Vase of Wild Flowers.

The collection of flowers which is so tastefully arranged in the vase before us consists apparently mostly, if not altogether, of wild species.

The pitcher plant, *Sarracenia purpurea*, with its pitcher-like leaves will be recognized by most every one, and it will also be seen how well it fills the place of ground-work to the whole. While not succeeding as a garden plant, even when in a quite damp place, it thrives well set in a pot with sphagnum moss about its roots and the pot placed in a saucer of water.

On the right-hand side, resting on a leaf of the pitcher plant, is a flower-head of the lizard's tail, *Saururus cernuus*. To those familiar with the horser plant *Lysimachia clethroides* it will be noticed how much the flower-heads of it look like this. But while both have white blossoms, the lizard's tail is a marsh plant and will thrive only in such situations. It grows two to three feet high, the slender flower

spikes drooping at the summit. As it spreads fast, large patches soon form, and when in flower these clumps present a most pleasing appearance.

The little clump of flowers in the center, just above the rim of the vase, is made up of heads of *Polygala lutea*, one of the showiest of the many beautiful flowers of the sandy parts of New Jersey. A little spike eight to twelve inches high bears a terminal head of orange yellow flowers. There are requirements for its successful growth which it seems hard to meet with outside of its native soil.

The spikes of white flowers which stand conspicuously above all the others are of the *Aletris farinosa*, a plant found in low ground in many parts of the country. If the spikes were not so tall and the flowers appeared set spirally on the stem, they would be named ladies' tresses, *Spiranthes cernuus*, a pretty orchid, which could well take the place of the *aletris* in the vase.

JOSEPH MEEHAN.

Miscellaneous Notes.

Calling on Robert Craig recently we found him inspecting a lot of Trumpet Major, which had just arrived from the other side direct. "Be careful to keep each grower's lot by themselves," he said to the men engaged in counting them. "I find that some lots will average three or more flowers to a bulb, while others will hardly produce two; by keeping them separate and noting the result we will know who to order from another season." They're pretty sharp over there, however; whenever they find there is a run on any particular variety up goes the price at once; there are some kinds of

tulips for instance, that it hardly pays to import any more, the first cost is so great that there isn't any money in growing them."

"Like to take a lookround would you?" "Yes, if you have the time."

"Certainly, come right along. Here's something nice in ferns—*Onychium auratum*; it is much handsomer in every way than *Japonicum* and will be a success I am sure.

"We have at last succeeded in getting *Pteris Victoriae* from seed. This is it here. I regard it as one of the greatest acquisitions in the fern line. *Pteris nobilis* I find comes up freely, it is also a very fine variety. I think these three varieties are very valuable additions to the list of everyday commercial ferns.

"Ain't these pretty," holding up a plant of *onychium* and *P. Victoriae*. "I tell you they're beauties. Here's a lot of ferns that came up in the small thumb pots you see there. They were imported from Europe and contained *Asparagus plumosus*, but it was too young, carried badly and soon died. We may get something good in the ferns as there is quite a mixture among them.

"*Nephrolepis davallioides furcans* is a grand fern; it makes a splendid decorative plant; it is rather slow to propagate, as it does not seed, but when planted out on a table this way it sends out runners freely which soon make plants. We can't get enough to supply the demand. Mealy bug is bad on furcans, and fir tree oil is the remedy; it knocks them every time. Gather them up this way and dip them into the mixture so the ends are sure to get saturated, for that is where the insect lodges.

"Here's a consignment of *Dicksonia antarctica* from Australia via London. They carried beautifully, not a plant having died in the whole business. They are all the way from one to six feet high as you can see. It is the best of the tree ferns for commercial purposes.

"Here is our *ficus* factory," said he as we came into a house, the center bed of which was planted with *Ficus elastica*. The bed was 100x15. All the leading shoots had been pierced and then covered with sphagnum. "We root the top in this way, getting a plant which, when potted, is well clothed with foliage to the bottom."

"How many varieties of *Ficus elastica* are there?" "Well, I have noticed at least a half dozen. This variety I think is the best; it is the one Mr. Harris thinks so well of, and he is authority on *ficus*." Standing in the shed at the end of this house was a splendid lot of bays just over, they had carried very well. "Fine plants, ain't they? It's the best lot we have ever had."

"What's this thing for?" "Oh, that boiler there, it is for vaporizing tobacco extract, and I think it is a very good thing. You see it is a common kitchen range boiler and is connected with our steam boiler by this 2-inch pipe and the 2-inch outlet is carried along under the center bench, having T pieces every second length; the opening from these is turned so that the direction of the steam is toward the ground. The boiler is placed as you see in an upright position, the steam supply pipe reaching nearly to the bottom; the boiler is then half filled with tobacco extract and water; when the steam is turned on this is carried out in the form of vapor and completely fills the house, settling on the plants both on the upper and lower sides of the leaves; we use it for about 15 minutes at a time.

It does not injure the most delicate leaf; we placed some adiantums in here when we first used it and they were not injured in the least. I think when used once a week as a preventive will be exceedingly useful. This is an idea from the Washington convention. I am very favorably impressed with it."

"You seem to have lots of young kentias." "Yes, I judge we have the largest stock of this palm in the country and the best we ever had at this age. Here's a lot on this table from 4-inch pots planted out. I tried it this season for the first time and like the system well enough to do more of it, they make such stocky plants. This method prevails extensively in Europe, they are very little trouble. I have failed as yet to find any scale on this lot, they are too strong and vigorous for the pests to get a hold."

A house of araucarias is a very pretty sight, plants from one to four feet high, all in perfect condition.

"This lot of seedling arecas is the best I ever had, 95 per cent of a batch of 20,000 seeds coming up; they are growing fast. I believe in giving young palms gentle heat to start them off and they should always be allowed plenty of room and then all are salable.

"Here is a plant we have been testing outside, *Phrynium variegatum*, and find it will stand very well if slightly shaded from the noonday sun. I think it will be a first class commercial plant; its worst enemy is red spider, but this can easily be overcome by an occasional bath with the vaporizer.

"There is something good, *Acacia Drummondii*, it is an admirable Easter plant, roots as freely as a cactus from cuttings and it makes a handsome pot plant.

"This is the year for the larvæ of the June beetle, the white grub which plays such havoc with the roots of roses; it develops every third year. We have to watch as we put in the soil and pick them out by hand.

"This has always been a great favorite with us, *Dracæna fragrans*; when carefully grown it makes a beautiful plant and sells well.

"Grasshoppers have troubled us some but we cover the inside of the ventilators with netting and find it a good preventive. One hopper can do a great deal of damage in a short time when shut up in a house.

"Here is a sample lot of palms, specimens, one of a kind, that I received recently from one of the largest wholesale growers in Europe. They are not any better than American grown stock and the price is prohibitory, as we can grow plants like these for one third less than their figures, and they always get more or less damaged coming over."

A lot of valley just received from cold storage was being boxed. The pips looked well and just as good as when put away, they have to be planted at once as they begin to grow directly and will be in flower in a short time.

"Are you getting many contributions of plants for the World's Fair?" "Yes, a great many, although I have been hindered by the absence of many owners of fine collections who are away on their summer outings. Those whom I have been able to see have all assisted willingly. This part of the exhibition will I am sure be a great success.

"The croton is a plant that's coming up. We found an excellent demand for them last spring, in fact we could have sold more of some sizes if we had had them. I am satisfied they will be used

very largely in the future. We are growing a lot into larger sizes; they make nice centers for vases as well as being useful for bedding.

"This is about all I have to show you to-day, but come around later and I will show you some chrysanthemums. They are better with us this year than we have ever had them before." K.

The Columbian Exposition.

Preparations are now being made for the removal of tender plants indoors, a frost last week having cut some of the coleus, though other bedding plants are untouched. The pansies, which are in various stages of growth, will be wintered in cold frames; it is estimated that 500 12-foot frames will be required for this purpose.

In addition to the decoration required at the dedicatory ceremonies next month a large display will be needed next spring when the exposition is formally opened. Among the plants intended for the latter purpose is a collection of wall flowers, which, it is expected, will make a fine show. For use next month a quantity of marguerites are now planted in boxes, several plants to a box.

Gloxinias are being grown on for use next year. It is Mr. Thorpe's intention to plant a quantity of them in baskets. This is not very commonly done, but it is peculiarly suited to the habit of the plant, giving the leaves room to spread, as is their nature. A variety of other gesneraceous plants are to be grown.

The shaded tuberous begonias are flowering very freely. One or two unshaded plants here and there are doing well, being those with a preponderance of Bolivians in the strain. The Peruvian forms are more tender than Bolivian.

In the Horticultural Building cacti are being planted at intervals along the walls; others, in baskets, will be disposed among the central girders of the roof, so that they will arch across to meet the lateral plants, covering the interior with verdure. Where these vines are planted a hole is dug about a yard square, this is filled in with rich soil, as the cacti are quite a greedy feeder. The eminence under the dome is still in a skeleton condition, but rich soil is being filled in wherever possible, it being considered wiser to do so while practicable, to provide against future contingencies.

Among the bold leaved plants for future bedding *Ferdinandia* eminens attracts notice; it is eminently suited either for subtropical beds or rock work. It is a fitting companion to the wigandias, or some of the large leaved solanums. Another fine foliage plant seen at the Exposition greenhouses is the new *Nicotiana colossea*, a Sumatran tobacco with broad spatulate leaves.

A showy flowering plant, which will be used in the bedding next season, is *Cassia corymbosa*, with its showy corymbs of deep yellow flowers. *C. tomentosa* is another showy variety. These plants are highly attractive, though but little known, and should make a good feature in bedding. *Grevillea robusta* will also be used largely; we are now quite familiar with this graceful plant, which with us forms a tender shrub; in Australia it makes one of their most useful timber trees.

The main nursery exhibit will be held in an enclosure in the Midway Plaisance, apart from the floricultural display, although ornamental trees and shrubs will be seen on the wooded island. The

scope of the nursery display is as yet uncertain, it being less advanced than the purely horticultural section.

Fine specimen plants are to be received from Mr. H. H. Hunnewell, of Wellesley, Mass., from Mr. J. L. Gardner, and from the Cambridge Botanic Garden. Owners of fine plants have shown the greatest readiness to assist the commission by tendering such exhibits, and this will result in an unusual display. A noticeable feature is the willingness to assist shown by foreign seedsmen and growers, who fully realize the value of such exhibits from a business as well as an educational standpoint.

The World's Fair Grounds.

We present in this issue a map of the World's Fair grounds showing the location and comparative size of the various buildings and the grounds that surround them.

The Horticultural building is on the west bank of the lagoon directly opposite the wooded island. To our mind it has the very best location of any building on the grounds, as it can be seen and its beauties enjoyed from every direction for a considerable distance, which is not the case with most of the other buildings which have not sufficient open space around them to show off to advantage such monstrous structures. The greenhouses are in the space west of the Horticultural Building and are not indicated on the map. As will be noted, bridges connect with the wooded island at each end of the Horticultural building, and on the island is a large share of the open air exhibits, including the rose garden and the ornamental trees and shrubs.

The Horticultural building has to our eyes the richest architectural effect of any building on the grounds. It is a noble structure, rich in decoration without being over-ornamented and far more beautiful than as presented in the architect's drawing, of which we published an engraving last year.

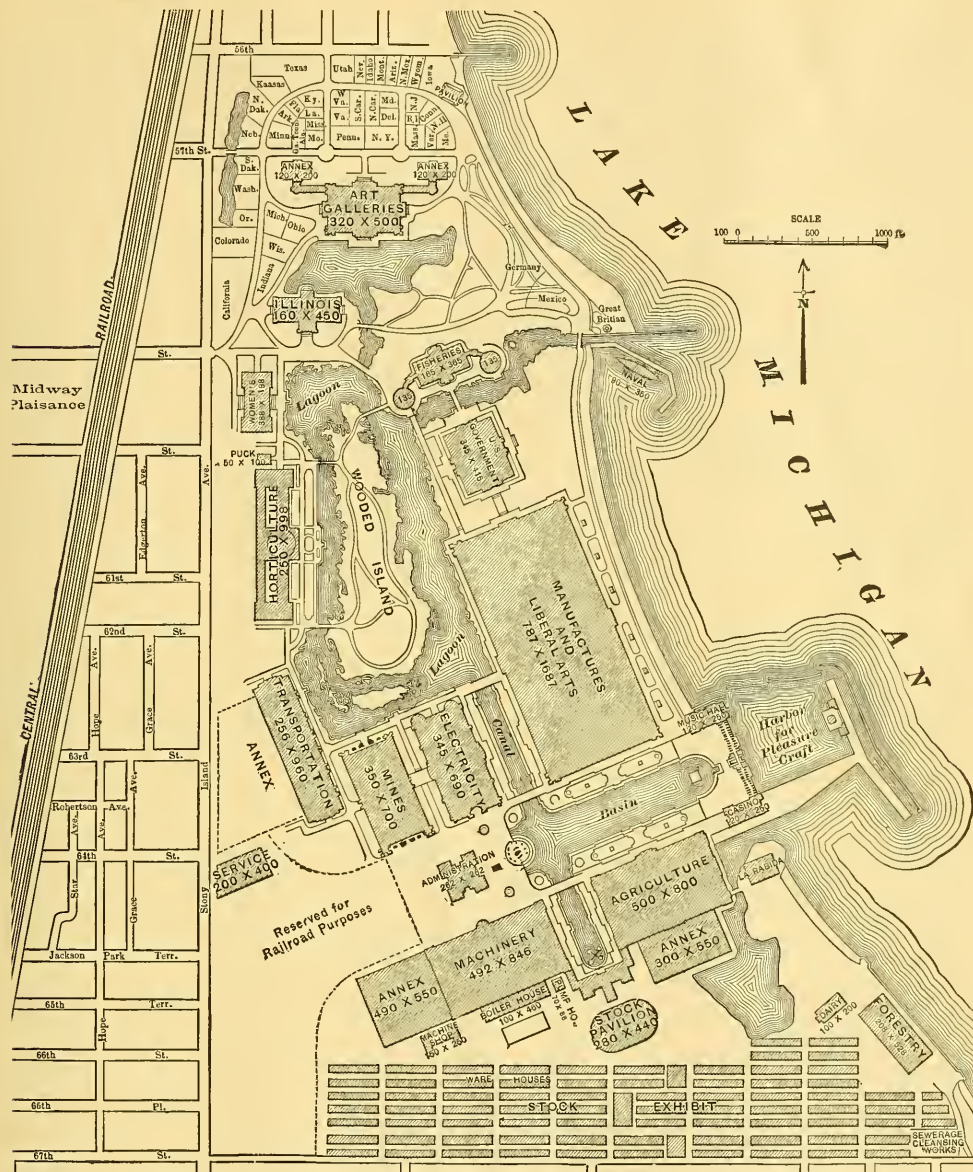
Plant Notes.

Tacsonias—These graceful climbers form a very useful group for conservatory decoration and deserve to be more widely grown. It is admitted that tacsonias are of little value as cut flowers, but then this is not the sole object for which plants are grown, though naturally a very essential point with most trade growers.

The plants in question are of free and rapid growth, readily propagated, and do not require more than a moderate temperature, say from 55° to 60° during the winter. The best results are obtained by planting them out in a bed at the end of a greenhouse, the shoots being trained on wires along the roof, this method displaying the pendent blossoms to the best advantage, and for compost a good rose soil is all that is necessary, though proper precautions should be taken in the matter of drainage.

Propagation is usually by cuttings, it being preferable to make the latter from shoots, the stronger growths being too sappy to furnish good cuttings, and in this operation it is advisable to cut the wood into three-eye lengths, as some of the eyes are found to be abortive.

Three or four species may be specially noted as being the best of those at present in cultivation and of these *Tacsonia Van Volxemi* is at the head of the list. This species has bright green three-lobed



MAP OF THE WORLD'S FAIR GROUNDS, JACKSON PARK, CHICAGO.

leaves and bears an abundance of crimson flowers, the latter being shaped like those of a passion flower (to which these plants are allied), about 5 inches in diameter and suspended on slender stems a foot in length. The flowers are produced singly from the axils of the leaves and have a singularly graceful effect when swinging about on their long footstalks from the roof of a greenhouse. Fruit is also borne quite freely by old specimens of this species and bears some resemblance to an

elongated green gage plum and is considered edible, but after having had some experience I cannot recommend them highly in this particular.

Another good variety is *T. exoniensis*, a garden hybrid originated by Veitch & Sons a number of years ago. It much resembles *T. Van Volkemi* in general appearance and habit, but has flowers of a peculiar shade perhaps best described as magenta.

T. insignis is a third member of this

genus that is specially noteworthy and is also very distinct from those above described, the foliage of *T. insignis* being frequently almost entire in outline and oblong in shape. The young leaves and stems of this plant are more or less covered with short, brown hairs, the flower stems also being clothed to some extent in like manner, while the flowers are dark crimson and sometimes attain a diameter of 6 to 7 inches.

The fourth species to which attention is

invited is T. Buchanan, also known as Passiflora Buchanan, and is much the strongest growing species in the genus. Its leaves are three to five lobed and somewhat woolly beneath, dark green and of stout texture, the flowers being bright scarlet and very freely produced on a well established plant. This is an admirable plant for a large conservatory, where its vigorous growth would be an advantage, and under such circumstances will continue blooming through the whole summer and fall.

Another point in favor of these plants is the fact that they are but little subject to insects, with the exception of red spiders, but the latter will not give much trouble, providing the plants are properly syringed.

Thunbergia Harrisii.—This is one of the best representatives of its family and makes a very showy roof climber when treated in the same manner as that recommended for *tacsonia*, and bears a wealth of light blue, trumpet-shaped flowers from three to four inches in diameter. It is of very free growth and will bear hard pruning after the flowering season is over, after which a top dressing of good soil will induce a rapid growth of new wood. *Thunbergia Harrisii* is very easily propagated, either by root cuttings or by those made from the shoots, and can be safely recommended as a climber for pot culture or to be planted out as above noted for conservatory decoration.

W. H. TAPLIN.

New York.

The only scarcity in the cut flower market at present is in carnations. All colors are in short supply. Roses are improving every day in quality, but unfortunately the demand continues light. Possibly the detention of incoming steamers and other conditions resulting from the cholera scare has some effect on the cut flower trade.

At the 34th street ferry the prospects are good for a big winter's trade. Every foot of table space has been leased and more space is demanded. Several parties are contemplating the erection of large refrigerators on the spot. There is some talk of leasing the floor above if a fair rent can be secured.

The supply men are in constant trouble on account of the quarantine regulations and it begins to look as if azaleas and other plants from European ports will be pretty scarce here this season. The importation of such stock is now accompanied by so much risk that large importing firms have requested of their customers to relieve them of their contracts. It has been officially stated that cargoes from ports not infected will not be subjected to fumigation, but the conditions or quarantine regulations under which the goods reached the non-infected ports must be taken into consideration, and so much risk is involved that the successful importation of plants at the present time is next to impossible. It is hoped, however, that cold weather will have such an effect upon the epidemic and upon the regulations at this port that by the time lily of the valley shipments are due there will be little or no detention or trouble.

The *Harrisii* and longiform trade is seriously disturbed by the non-arrival of Bermuda stock, resulting from the late heavy rains which visited that section and which caused heavy loss from rot. In some localities the bulbs were completely ruined. This means serious interruption to the lily forcing industry, for the bulbs from other countries will be

fully two months later than the Bermuda crop.

A very pretty novelty in the florist supply trade is in the line of jardinières of maple wood, highly finished and decorated. These will soon be on sale at the leading supply establishments. They are very pretty and serviceable.

"Is there any money in orchids grown for cut flowers?" is an oft-repeated question. In answering this question a significant pointer will be found in the fact that such conservative and careful men as John M. Keller, of Bay Ridge, and Julius Roehrs, of Carlton Hill, are going quite heavily into *Cattleya Trianae*. The plants cost on an average about \$1 each. The fact is that at no time last winter was there any overstock of this flower in the New York market, a ready sale being found for them at all times at about \$6 per dozen, and there were times when the demand was far in excess of the supply. A fair estimate of the annual production is about six blooms to a plant.

The Flatbush florists have organized a bowling club. The memberships limited to 25 and already 22 are enrolled. Officers have been elected as follows: President, Eugene Dailledonze; Vice-President, L. Schmutz; Secretary and Treasurer, L. Kretschmar.

Gordon Bell, gardener to Chas. Butler, Hartsdale, N. Y., died suddenly on Saturday, August 20. He was a member of the N. Y. Florist Club, and was very well known and highly esteemed. He was considered one of the best grape growers here and raised large quantities for the N. Y. market. His funeral was attended by a large number of the private gardeners, and the N. Y. Florist Club sent a token in the form of a large anemone, which was made by Mr. Chas. L. Doran.

Boston.

There has been no revival as yet in the cut flower trade. The principal attraction of the week has been the exhibition at Horticultural Hall and the social incidents which always accompany such occasions. The decorations seen in the florists' windows consist mainly of the sunflowers, hydrangeas and other coarse garden flowers, no attempt being made to attract attention to the choice varieties. Good roses are coming in on all sides, but the buyers are not inclined to invest heavily in them yet.

In most of the rose growing establishments the stock looks well and is very promising. Bride, Hoste, Gontier and Mermet are planted very largely, with Perle, Niphotos and Bon Silence in somewhat reduced quantities, and the success of some growers last year with Meteor has encouraged the planting of this variety to a considerable extent. Many have dropped the Waban, but not all. Several of the best growers have faith in it still and propose to give it another chance this year.

Chrysanthemums are in splendid shape. Unless some unforeseen disaster overtakes them the Boston growers will hold their own in this season's exhibitions. The chinch bug is giving considerable worry to the chrysanthemum growers in some localities. This insect is also very severe on single dahlias and has made it next to impossible to get a perfect flower.

At the September meeting of the Mass. Horticultural Society the committee to nominate candidates for office for the ensuing year, to be voted for October 1, reported the following changes: President, Nathaniel T. Kidder, in place of William H. Spooner, who has served three years,

and who goes on the executive committee in place of Frederick L. Ames, who is nominated as a vice-president, in place of Mr. Kidder. On the committee on publication and discussion W. H. Hunt takes the place of C. Minot Welch, and the same gentleman takes the place of Joseph H. Woodford on the vegetable committee. J. W. Manning, Jr., takes W. J. Stewart's place on the flower committee, the latter gentleman going on the library committee.

The committee appointed last winter to consider the interests and proper representation of Massachusetts in the horticultural department of the Columbian Exposition has got to work at last and although it is very late the prospects are that something will now be done. A request for a grant of a certain sum of money from the state appropriation has been promptly responded to and \$3,500 devoted to the committee's use, subject to the approval of the state commission. Mr. Patrick Norton has been selected to oversee and take charge of the collection, packing and transportation of all plants which are to fill the space allotted to Massachusetts, and shipments will begin at once.

Mr. John J. Duane of West Medford died on September 2. He has been associated with his father, Mr. John Duane, in the greenhouses for a number of years.

Philadelphia.

The regular monthly meeting of the club, held Tuesday evening, 5th inst., was very well attended. In the absence of both the president and vice-president Robert Kift was elected to preside. After the routine business had been transacted William J. Math and J. Albrecht were elected to membership and several names were placed in nomination for action at the October meeting.

Nominations for officers to serve for the ensuing year were now made, resulting in the old board remaining as it is: For president, Robert Craig; vice-president, Chas. D. Ball; treasurer, Thomas Cartledge; secretary, Henry F. Michell. The club had the pleasure of meeting Mr. M. F. Gallagher of Chicago, who is spending a few days in this city accompanied by his family. In a few well chosen words he expressed his pleasure at being present and meeting the members of the trade in his native city. His remarks were well received.

The silver cups won in the bowling tournament at Washington were brought in by Captain Anderson and very much admired. There is a bit of a string attached to one of them, but Mr. Lonsdale thinks that by a good steady pull it may be detached some time next summer. Quite a number, by the way, are already talking about the St. Louis trip, and we fully expect to see a large delegation from this vicinity.

Mr. Craig's paper on "A review of the convention at Washington" was promised for the next meeting and will no doubt be a very interesting essay.

Business is improving slowly and the quality of the stock offered is getting better. Albans, La France, Mermet and Brides are beginning to look like something and are in demand, the best selling for 4, other varieties being from 2 to 3.

The new rose so highly spoken of by Mr. Asmus at the convention, Mme. Testout, is likely to have a good trial about here; Messrs. Craig and Lonsdale have each quite a batch planted and believe it will take the town by storm when put on sale.

The Wayne Horticultural Society of Wayne, Pa., was organized recently. The officers are: President, Christopher Fallon; secretary, F. Smith; treasurer, J. P. Wood—all of Wayne. The society starts off well with a membership of 150. They will hold their first exhibition in the Wayne Opera House September 15 and 16. John G. Gardner of Johnstown, who is managing an estate at Wayne at present, will be superintendent of the show. The affair promises to be a grand success, as the members are very enthusiastic and working hard. Florists and private gardeners are among the active workers, one of the prominent members being John Hughes, gardener to Mr. G. W. Childs, the gems of whose collection will help the exhibition very materially. This effort is due to a description of a California flower show in one of the horticultural papers, which attracted the attention of Mr. Fallon, who thought, "why can't we have something of the kind here." On looking about he found plenty of material and friends to help and the result was a new horticultural society. Score one for the horticultural press and Mr. Fallon; may they both live long and prosper!

John Nisbet, the redoubtable bowler who will never say die, selected a team to defeat the Washingtons on Thursday night last, but he fared even worse than did Capt. Westcott's team. In keeping with the event of the week and to have the prestige of a victorious name he styled his men the Corbetts, while Capt. Anderson's men had to be satisfied with being dubbed Sullivans, but they proved themselves to be veritable Corbetts, as they knocked out the other fellows, beating them by 297 pins in three games. The score was: Sullivans, 2,697; Corbetts, 2,400. Capt. Nisbet set a fine pace for his men, but they couldn't keep up to it. He was No. 2 in the match with 483 pins, Brown being No. 1 with 495. The Westcotts are to try their hand again next Thursday night. K.

Toronto.

"Exhibition" is the sole topic of conversation this week and will continue to be so until the end of next week. The show in the Horticultural Hall is certainly the best ever held in this city, both for quantity and quality of plants, and I heard it remarked several times by those who know what they are talking about that no one city in Canada or the United States (with the exception of Boston perhaps) could bring together as fine a collection of well grown stove and greenhouse plants. The section that brought out the most competition was for the best display of plants on tables 16x19 feet; there were six entries for this, three from florists and three from Public Gardens. The prizes were liberal and worth trying for (thanks to former efforts of the Gardeners' and Florists' Association) and the boys put their heart and soul in those tables. Looking them over just after they had been arranged I thanked my stars I was not a judge, there was so little difference between the three best. Brother F. G. Foster, of Hamilton, has his work cut out for him but he is without a doubt quite able for it, a more conscientious, painstaking judge never existed. I see since by the papers that George Reeves, of Reservoir Park, captured the first prize; John Cotterill, florist, Deer Park, second, and Wm. Houston, Central Prison, third; and on thinking things over I don't see how any fault can be found with that.

Next week when the cut flowers and

designs will be staged I purpose sending you a detailed account of the show. Great Scott, of Buffalo, will judge the cut flowers, etc.

A meeting of the Gardeners' and Florists' Association is called for the 13th inst. for the purpose of discussing the desirability of sending a horticultural exhibit to the World's Fair next year, and the commissioner for Ontario is to address the meeting.

Trade always brightens up a bit during the exhibition, the city being chuck full of visitors and most of the residents have returned from the summer resorts.

I found Mr. Geo. Vair busy overhauling his greenhouses at Chestnut Park (the residence of Sir David McPherson) and of course the first thing I did was to get him to tell me all about Washington and the doings at the convention. He was disappointed in the shade trees, of which so much has been written, and says they are not so vigorous and healthy looking as those in Toronto; the absence of flowerbeds also struck him unfavorably, but the evergreens seem to have charmed him greatly.

Chestnut Park is a delightful place to spend an hour or two; it reminds one more of the old English country seats than any place I have seen on this side of the Atlantic; the smooth, well kept lawn, surrounded and dotted with fine old trees, the large conservatory attached to the house, the kitchen garden and orchard with borders of herbaceous plants and annuals, all make it a delight to the soul of the visitor with an eye for the beauties of nature.

The palms, of which there are some extra fine specimens, were all standing out doors under the shade of wide spreading trees; amongst them was the very fine specimen of *Kentia Belmoreana*, which I have mentioned before in my notes, a *Cycas revoluta* on which I counted ninety-six perfect leaves, several large well furnished *Latania Borbonica*, and many others. In the conservatory (undergoing repairs), planted out, is a magnificent plant—or tree rather—of *Theophrasta imperialis*, eighteen feet high, its large, glabrous leaves making it very effective, also very large trees of *Ficus elastica*, *Abutilon "Boule de Neige"*, *Habrothamnus elegans*, a *musa* reaching nearly to the top of the dome, *rhododendrons* and other flowering shrubs.

In the stove, the roof of which is covered with *Allamanda Hendersoni*, now in full bloom, is a goodly collection of orchids, aroids, bromeliads, ferns, etc. A batch of *calanthes* were looking very lusty, and showed signs of flowering profusely later on. *Oncidium varicosum*, *Dendrobium densiflorum*, *Stanhopea tigrina* (on a block) and a few others were in bloom. A large pan and several smaller pots of *cyrtodeira* with pretty deep scarlet flowers and dark foliage were growing luxuriantly (this was labelled *C. chontalensis*, but I see in Nicholson that this variety has lilac flowers, yellow center and whitish tube). A large specimen of *Platycerium grande* is also worthy of notice; one does not often meet with it. But *Meyenia erecta*, a little greenhouse shrub, with good sized dark purple flowers and white throat, struck me as being particularly beautiful and worthy of a place in every collection. A large viney and orchard house I did not go into for want of time.

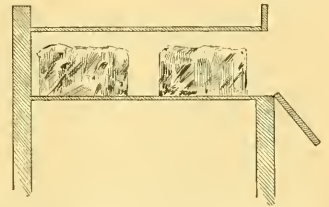
Chrysanthemums were indoors and out doors in great quantity, of all sorts, sizes and shapes, but the bug had been making itself obnoxious on those out doors; it

does seem now as if the only way to grow *chrysanthemums* successfully was under glass.

On the beauties of the kitchen garden, orchard and sundry other nooks and corners I can not now dilate. Mr. Vair overlooks all with a fatherly eye and treats everything with that feeling which only true gardeners possess or understand. I should like to describe Mr. Vair himself, but he is so well known it is hardly necessary, so I will spare his blushes and simply say that amongst Canadian gardeners he is the G. O. M. E.

Calceolaria Bench.

The accompanying cut explains itself; it is the excellent device arranged by Mr. Thorpe for carrying young *calceolarias* safely through the hot weather. The bench is arranged with a false bottom, the intervening space having a depth of



about 15 inches. Lumps of ice are stored in this space, resting on a bed of moss. In the front the space is closed by a board hinged at bottom and hooked at the top. The young *calceolarias* are plunged in sand on the bench, thus receiving the cool temperature underneath which they so urgently require. Under this treatment there is a very small percentage of loss.

Detroit.

In connection with the 4th annual Detroit International Fair and Exposition, August 23 to September 3, was held a grand flower show, and looked at from a horticultural standpoint it far eclipsed any former effort. The building in which it was held was formerly an art gallery, and I never saw plants show to better advantage; the dark draped background from which in former years hung pictures and works of art was gayly decorated with wreathing of "Jersey laurel," *Kalmia latifolia*, and bracketed here and there were small groups of palms, from which drooped vines. The one noteworthy advantage was the overhead light, which came from the skylights, superior in every way to the side light of windows, which is usually endured at exhibitions, and which but half shows the beauty of plant and flower.

The judges were, for plants, Prof. L. R. Taft, of the horticultural department of the college at Lansing, and for designs J. M. Gasser, of Cleveland.

The principal exhibitors were J. Breitmeyer & Sons, Detroit Floral Co., E. Ferrand & Son, G. A. Rackman, F. Schneider and Chas. Bogula, of Detroit; United States Nurseries, Short Hills, N. J., and Alex. Common, Galt, Ont. Bruno Schroeter was also a large exhibitor, though not for competition, owing to his position as superintendent of the floral department. Wm. Ferguson, superintendent of Belle Isle Park, contributed an interesting exhibit in the collection of water lilies (which he sent; among others it included *Nelumbium speciosum*, *Nym-*

phæa odorata rosea, the Cape Cod lily, etc.

The exhibits were divided into five classes, plants in pots, cut flowers, floral designs, stove and greenhouse plants, and beds. The latter included carpet beds, subtropical beds and beds of plants in blossom, which were arranged parallel with the front of the hall, and proved quite a drawing card.

In the collections of stove and greenhouse plants the U. S. Nurseries were first with a nice clean lot, including aloccasias, dieffenbachias, nepenthes, anthuriums, and a grand piece of Ananasia sativa variegata. J. Breitmeyer & Sons received second in this class; Detroit Floral Co. third. For collection of palms (25 varieties) J. Breitmeyer & Sons took the "palm" with a grand lot of decorative stuff, kentias, both Forsteriana and Belmoreana, Areca lutescens, Rhipis flabelliformis and Phoenix rupicola particularly fine; they also received first for specimen Chamerops excelsa.

For 12 palms not to exceed 8-inch pots the U. S. Nurseries obtained first with some very choice varieties, Ceroylon nivium, Chamedorea Ernest Augusta and Astrocarum mexicanum being among them. Second prize went to Detroit Floral Co. for well grown florists' varieties. For collection of orchids the U. S. Nurseries obtained the "Association Diploma," also first for collection of five varieties, for pair Araucaria excelsa and for collection of dracaenas, which included the handsome D. Lindenii, D. Gladstonei and D. Shepherdii. Detroit Floral Co. secured first for a representative collection of ferns, also first for single specimens, all well grown. J. Breitmeyer & Sons were first for collection of crotons, well colored and including well known varieties. For flowering plants F. Schneider carried off the principal prizes, while the balsams were divided among Alex. Common, Chas. Bogula and E. Ferrand & Son. J. Breitmeyer & Sons secured all the firsts for cut roses, while the prizes for miscellaneous cut flowers were divided among the other local exhibitors.

As the show lasted fully 10 days the idea of having the cut flowers replenished at the middle of the exhibition was a good one, as was also the case with floral designs. This included the mantels and table decorations. There were, however, only two exhibitors in this class (surprising seeing how many good florists there are in Detroit) and honors were easy, between J. Breitmeyer & Co. and the Detroit Floral Co., though Bruno Schroeter carried off two firsts for two pretty designs. E. Ferrand & Son had all their own way with the beds, though Chas. Bogula ran them rather close, with G. A. Rockman first for bed of coleus. Chas. Bogula was first for pair of lawn vases and the Detroit Floral Co. for most attractive vase.

Mr. Schroeter contributed a bed of cannas (named). Several groups of palms, general decorations and mantels were tastefully arranged. F. Schneider showed an immense ficus and big oleander, E. Ferrand & Son an orange in fruit.

There is a class called "discretionary," and it is a good idea to bring out, as the rule reads "diversified exhibits."

I noted during the show a number of florists from outside cities, among them G. A. Heintz and J. G. Gartner, Toledo, O.; Matthew Ullenbruch, Port Huron, Mich.; C. B. Bowditch, Grand Rapids, Mich.; F. B. Ward, Pontiac, Mich.; Walter Mott, with H. A. Dreer, Philadelphia; H. A. Bunyard, with U. S. nurseries. B.

PANSIES.

Pansies are all sold until the latter part of September; expect to have them then by the 100,000. Price, free delivery, 75 cts. per 100; \$3 per 500. You to pay express, \$5 per 1000.

CARNATIONS.

My Carnations are looking extra good this season. When you think about Carnations, think about me. Write and see what I can do for you.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

CARNATIONS. VIOLETS.

20,000 fine, stocky, field grown plants

	Per 100	\$100
ORANGE BLOSSOM.....	5.00	
MAY FLOWER, fine fancy.....	7.00	
SNOW BIRD, white.....	5.00	
WHITE WINGS.....	5.00	
WEST END, pink.....	5.00	
TIDAL WAVE.....	6.00	
GRACE WILDER.....	6.00	
HINZE'S WHITE, extra fine stock.....	5.00	
LIZZIE MCGOWAN.....	6.00	
MARIE LOUISE VIOLETS.....	8.00	

The above all fine healthy plants.

ADDRESS E. B. JENNINGS,
SOUTHPORT, CONN.
Lock Box 254
CARNATION, VIOLET AND PANSY GROWER.

CARNATIONS

30,000 field grown plants. Stock fine, healthy, bushy plants.

	Per 100	\$100
Hinze's White.....	5.00	
Orange Blossom.....	5.00	
Snow Bird.....	6.00	
Lizzie McGowan.....	6.00	
Mayflower.....	6.00	
White Wings.....	5.00	

Free strain of Pansies, \$5.00 per 100.
5,000 Marie Louise Violets, \$8.00 per 100. Extra fine plants, free from disease.

Address GEO. B. WHITEHEAD,
GREEN'S FARMS, CONN.
Lock Box 116.

CARNATIONS, FIELD GROWN.

GOLDEN TRIUMPH,

and other varieties.
Send for list with prices.

R. T. LOMBARD, Wayland, Mass.

NANCY HANKS

beats them all, both

HORSES AND CARNATIONS.

Single of the popular Grace Wilder but of stronger growth. Field grown plants of these and Day-break; also 35 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

CARNATIONS

Field grown plants, \$6 & \$7 per 100.

GRACE WILDER, SILVER SPRAY, HECTOR, MRS. FISHER, ANNA WEBB, HINZE'S WHITE, ETC.

GEO. E. BUXTON, Nashua, N. H.

Extra Fine, Strong, Field Grown

CARNATION PLANTS.

HINZE'S WHITE, PORTIA, FRED CREIGHTON, GRACE WILDER, LIZZIE MCGOWAN, W. F. DREER.

Send for prices to

EDWIN LONSDALE, Florist,
Wyndmoor. Chestnut Hill, Phila., Pa.

Carnations for Winter Flowering

BUTTERCUP, and all leading kinds. Established in pots. Roots kept intact. No risk in shipping. Write for prices including expressage.

A. S. MacBEAN, Lakewood, N. J.

AURORA

AND OTHER

Carnation Plants

FROM THE FIELD.

Send for price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

10,000 CARNATIONS.

Per 100.
Garfield, Hinze's, Wilder, Mrs. F. Mangold and J. J. Harrison..... \$8.00, \$7.00 and \$ 8.00

ROSES Albany, La France, Mermel and Safrano, from 2-inch pots..... 6.00
Albany, La France and Wootton, from 2-in pots 3.00
Bride, Mermel, Safrano and Bon Silence, 2-inch pots..... 2.50

VIOLETS Marie Louise and Swanley White..... 4.00
Asparagus Tennisimus, 3½-inch pots..... 8.00

Dracena Indivisa 3-in. pots .. \$1.00 per doz. 8.00
Fern Pteris Serrulata, 2-in. pots. \$1.00 a doz. 8.00

" " 2-inch pots, 10e a doz. 4.00
Grevillea Robusta, 15 to 18 in. high, \$2.00 a doz. 15.00
Pandanus Utilis, 4-inch pots, strong, .85 per doz.

NATHAN SMITH & SON,
Adrian, Mich.

CARNATIONS AND VIOLETS.

Extra fine field-grown Carnations, Anna Webb, Hinze's White, Grace Wilder and Portia, at \$3.00 per 100 or \$75.00 per 1000. Extra large clumps of Marie Louise Violets, guaranteed perfectly free from disease, \$6.00 per 100 or \$50.00 per 1000.

These prices are but for orders received before September 19. Also extra large plants of Vinca, fol var., field grown, English Ivy and Chrysanthemums.

JAGD & CO., Box 93, Springfield, Mass.

NOTICE.

Our roses are all sold.

We are now booking orders for Field Grown Carnations, of which we have about 50,000 plants. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

FIELD GROWN CARNATIONS,

READY SEPT. 15

of the following varieties:

HINZE'S WHITE, SILVER SPRAY, PORTIA, AND GRACE WILDER.

J. A. TRACHT & SON, Galion, Ohio.

CARNATIONS

Strong plants, \$8 00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc., etc. ROYALDIAS Pres. Cleveland, Davidsonii, Pres. Garfield, Bridal Bouquet, \$8 00 per 100.

PRIMROSES, 2½-inch pots, \$4.00 per 100.

WM. A. BOCK, North Cambridge, Mass.
Mention American Florist.

PLEASE mention THE AMERICAN FLORIST every time you write to an advertiser.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, Am. Beauty, Perles, Duchess of Albany, La France, Niphetos, in 2, 3 and 4-inch. Gontier, Mme. Hoste, Meteor, C. Mermet, Bride, Bon Silene 2-in.

PRICES GIVEN ON APPLICATION.

A few fine Hybrids and Everblooming left

A few thousand Thos. Hogg, Horlensis, Horlensis var. and paniculata grandiflora Hydrangeas, in 2½-inch pots; are in prime order to repot into 4-inch pots. Price \$5.00 per 100; \$40.00 per 1000.

Primulas, single, 2-in. \$6, 3-in. \$8 per 100. We are still in our old location.

GEORGE W. MILLER,
1748 N. Halsted St., CHICAGO, ILL.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSES.

TEAS \$30.00 per 1000
HYBRIDS 40.00 per 1000
Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.
Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
FLORISTS' • SUPPLIES,
23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

NO MORE WHITE STRING!
For stringing Smilax and tying bouquets,
use our **FLORISTS' GREEN THREADS.**

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
—WRITE FOR SAMPLES AND PRICES.—

2 LARGE PANDANUS, 4 feet.
1 LARGE FICUS, 7 feet.
1 LARGE CYCAS PALM, about 6 feet.
2 LARGE DRACENAS, 6 feet.
2 LARGE YUCCAS.

A number of large ferns.

MRS. J. F. STUDEBAKER,
SOUTH BEND, IND.

FIELD GROWN CARNATIONS.
Florists desiring Carnations of the leading varieties at a low figure will do well to communicate with
FRED L. VOSE,
Beacon Side Nurseries, Cumberbund Hill, R. I.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

Roses.

MERMETS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN AMI, MME. CUSIN, WABAN, BON SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.

From 3-inch pots, \$8.00 per 100; \$75.00 per 1000.
2½-in. pots, \$5.00 per 100; \$45.00 per 1000.

CARNATIONS.

Strong, healthy, field grown plants.
Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Portia, Mrs. Fisher, Hector, Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$70.00 per 1000.
2nd size, \$6.00 per 100; \$50.00 per 1000.
PURTAN, best new white.

GOLDEN TRIUMPH, Yellow,
AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.
Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

ROSES.

PERLE, 2½-inch, fine.....\$ 5.00
SUNSET, 2½-inch, fine..... 5.00
C. SOUPERT, 2½-inch, fine..... 5.00
MME. P. GUILLOT, 2½-in., fine..... 8.00
AM. BEAUTY, 3½-inch..... 14.00

J. C. VAUGHAN,
P. O. Box 688. CHICAGO.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

ROSES. ROSES.

LA FRANCE, PERLE and MERMET, Per 100
from 4-inch pots \$ 8 00
NIPHETOS, SOUV. D'UN AMI, PAPA GONTIER, MME. CUSIN, 3 inch pots 6 00
PERLE, BRIDE, MERMET, LA FRANCE
from 2½-inch pots 3 50

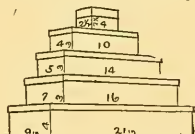
W. G. Huscroft,
STUEBENVILLE, OHIO.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,
STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants extra choice, 20s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
1000 plants, 1st choice, straw thick, 15s, 1 yr. "
Cash with order. Send via Bremen Lords.

Paper Boxes
FOR FLORISTS.



All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street, CHICAGO.

ROSES.

In Leading Forcing Varieties.
CARNATIONS.

Strong plants from open ground.
EMILY PIERSON, new scarlet.....Per 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00
MRS. FISHER..... 7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00
The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,
in too leading varieties. Send for list.
A. N. PIERSON, Cromwell, Conn.

3,000 JACQUEMINET ROSES,

From 3-in. pots, \$5 per 100; 4-in. pots, \$1 per 100; 5-in. pots, \$8 per 100 per 1000.

2,000 *negonia* ~~tex~~ from 3-in. pots, \$5 per 100.
3,000 English Ivies, from 4-in. pots, 2 ft. high, \$2 per 100.

5,000 English Ivies, same size, lifted from open ground, \$8 per 100.

10,000 Violets, Marie Louise, strong June cuttings, rooted out door, positively no disease, \$2 per 100.

2,000 *Bouvardia Davidsonii* and *Alfred Neuner*, 3½-in. pots, \$5 per 100.

500 pots of *Acorus variegata*, strong plants, fine for trimming in funeral work, \$10 per 100.

All guaranteed to be healthy and vigorous. Will exchange on reasonable terms for thirty young stock of *Bon silene* roses.

JOHN RECK, BRIDGEPORT, CONN.
When ordering mention American Florist.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. ROSE.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is a very strong, healthy grower, with beautiful foliage, nearly every shoot producing a flower on long erect stems, of ivory whiteness and beautiful shape. I have a house full of them which is admired by every florist. My stock comes direct from the originator.

Price of Plants in 3-inch pots, \$5.00 per dozen.
Price on larger quantities on application. Cash with the order.

J. COOK,
318 Charles Street, BALTIMORE, MD.

FORCING ROSES.

To close out we offer plants as follows:

700 ALBANY..... 3-inch, \$6.00 3½-in. \$8.00
500 WABAN..... 3-inch, 6.00 3½-in. 8.00
200 MERMETS..... 3-inch, 6.00 3½-in. 8.00
200 AMERICAN BEAUTY..... 3-inch, 9.00
500 NIPHETOS..... 3-inch, 7.00
100 MME. HOSTE..... 3-inch, 7.00
200 MME. P. GUILLOT..... 3-inch, 8.00
All strong, healthy stock.

BROWN & CANFIELD, Springfield, Ill.

Who Wants Them?

10,000 fine, large Climbing Roses,
2 years: Greville, Baltimore Belle
and Tennessee Belle, \$8.00 per 100.
SPEAK QUICK.

WM. B. REED, FLORIST,
CHAMBERSBURG, PA.

WATER LILIES.

SPECIAL TRADE LIST OF PLANTS,
DORMANT TUBERS AND SEED FREE
ON APPLICATION.

WM. TRICKER, Dongan Hills, S. I., N. Y.

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers and Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., **CHICAGO.**
Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON, —*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.

We make a specialty of shipping choice Roses and other Flowers, carefully packed, to all points in Western and Middle States. Return Telegram sent immediately when it is impossible to fill order.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express
promptly filled.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
*≡≡≡ **WHOLESALE** ≡≡≡
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Markets.

Cut Flowers.

NEW YORK, Sept. 13.	
Roses, Peries, Sunsets, Gontiers.....	1.00@ 2.00
" Mermaids, Brides, Niphetos.....	1.00@ 2.00
" Wattevilles, Hostes, Bennetts.....	2.00@ 2.00
" La France, Albany.....	8.00@ 15.00
" Beauty.....	5@ 7
Carnations.....	4.00@ 6.00
Valley.....	1.00
Adiantums.....	10.00
Smilax.....	

	BOSTON.	Sept. 13.
Roses.....	Niphetos, Gontier.....	2.00 3.00
".....	Bride, Mermet, Woolton.....	3.00 4.00
".....	La France, Meteor.....	4.00 6.00
".....	Perle, Sunset.....	3.00 4.00
".....	Beauty.....	8.00 12.00
Carnations.....		1.50
Asters.....		1.00
Valley.....		4.00
Tuberose.....		3.00
Gladioli.....		3.00 4.00
Hydrangeas.....		5.00 6.00
Japan Lilies.....	(Album).....	2.00

Roses, La France, Albany.....	PHILADELPHIA, Sept. 13.
" Perle, Niphetos.....	2.00
" Marie Guillot.....	2.00
Valley.....	6.00
Sweet Pans.....	.25
Glandiols.....	2.00
Geraniums.....	4.00
Carnations.....	4.00
Asters.....	.50
Adiantums.....	1.00
Smilax.....	15.00
	CHICAGO, Sept. 13.

Assorted roses.....		3.00
Carnations, long.....	1.00@	1.50
short.....		.75
Am. Beauty.....		8.00
Smilax.....		15.00
Gladiolus.....	1.00@	5.00
Sweet Peas.....	25@	5.00


Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
 — **WHOLESALE.** —
 67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMITH, The Florist,
GROWER OF
Fine Roses  other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.
Mention American Florist.

CUT SMILAX.
Summer prices, 15 cents per string. Special
attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. **JAMES PURDY,**
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST
117 W. 30TH ST., NEW YORK

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
— WHOLESALE —
F L O R I S T,
111 WEST 30TH STREET,
NEW YORK CITY.

WHOLESALE
FLORISTS

La Roche & Stahl

N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

Re Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Westfield, Conn.

Mr. Wm. F. DREER was in Paris at last accounts.

SPINACH seed and most all root crop seeds are scarce in Europe.

It is rumored that two prominent Boston seed houses are about to coalesce.

ONE GROWER on the "other side" reports sweet peas as producing but from $\frac{1}{4}$ to $\frac{1}{2}$ crop this season.

LINDSAY BROS., Milwaukee, agricultural implement dealers, are building a large four story warehouse.

MR. C. HENNECKE, the well known manufacturer of statuary and pottery wares at Chicago and Milwaukee, died September 11.

NEW ILLINOIS CORPORATION.—The Levings Brothers' Seed Company, at Paris; capital stock \$7,000; incorporators, W. H. Clinton, F. R. Magner and H. C. Boyles.

Catalogues Received.

D. M. Ferry & Co., Detroit, bulbs and seeds; Currie Bros., Milwaukee, bulbs and seeds; Selover & Atwood, Geneva, N. Y., nursery stock; Pike Co. Nurseries, Louisiana, Mo., nursery stock; Wm. H. Spooner, Jamaica Plain, Mass., roses; Geo. Hancock, Grand Haven, Mich., carnations; J. M. Thorburn & Co., New York, bulbs; W. C. Reed, Vincennes, Ind., nursery stock; Joseph Bancroft, Cedar Falls, Ia., floral arrangements.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. for prices examine Wholesale Catalogue.

Address with business card.

136 & 138 West 24th Street,

STATION E.

NEW YORK.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Rootstock. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

CALLAS.

Dry bulbs, different sizes, 3 to 10 cents.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery.

BRAUER & RICHTER, McCometaville, O.

DUTCH BULBS.

MRS. J. S. R. THOMSON, Sparanburg, S. C.

Solicits consignments this season of bulbs of Tulips, Hyacinths and Narcissus, to grow for dealers, to be reshipped by July 1st, 1893. See recent articles on this subject.

United States Nurseries,

THE LEADING IMPORTERS and HEADQUARTERS FOR

• • • • BULBS • • • •

From FRANCE, HOLLAND, GERMANY, BERMUDA, JAPAN, ETC.

Are filling all orders for **ROMAN HYACINTHS** and other bulbs for present delivery. Should any florist have been disappointed by receiving short deliveries, we can supply their wants, at early quoted prices.

NOVELTY.

DWARF CALLA LILY "ELLIOTT'S LITTLE GEM." Large flowering bulbs. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, pure white and more profuse than the common Calla, which makes it indispensable for design work.

CYCLAMEN PERSICUM GIGANTEUM SEED. Best English strain. New crop now ready.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILIUM HARRISII AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS.

114 Chambers Street,

NEW YORK.

Illustrated Catalogue on application.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.

P. O. Box 3118. Warehouse 58 West Street.

NEW YORK CITY.

Ask for General Wholesale Catalogue.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000..... 72.50

50,000..... 337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to

J. HORACE MCFARLAND, Harrisburg, Pa.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

Freesia Refracta Alba.

Selected Bulbs, \$1.00 per 100; \$7.50 per 1000.

CHINESE NARCISSUS BULBS, per 100 \$6.50.

DUTCH BULBS ready this week.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS and SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

Bulbs and Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

Mention American Florist.

BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Altona, Hamburg. CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow. It must be fresh, well spawned, and in good condition. Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, "Mushrooms for the Million," mailed free. Falconer's "Mushrooms and How to Grow Them." Published at \$1.50. (Gardiner's price \$1.35 post free.) Robinson's "Mushroom Culture," 50 cts. post paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co. have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$3.00 per 100 lbs. Special rates to large growers. Address all correspondence to 21 North Thirteenth Street, Philadelphia, Pa.

JOHN GARDINER & CO.**PANSY PLANTS.**

The Jennings strain of large flowering Pansy Plants now ready. 3000 sold in '91. Fine for winter blooming, and for spring sales there is no better in the market. Price by mail 60c. per 100, \$5.00 per 1000, \$50.00; any quantity you want up to December 15, plants any size wanted. Send in your order early, as there is a big demand for these Pansies. Seed of this strain \$1 per trade packet of 2000 seeds, ounce \$6.00.

H. B. JENNINGS,

CARNATION, VIOLET AND PANSY GROWER,

Lock Box 254.

SOUTHPORT, CONN.

Big Pansies.

You can't miss it with the Giant Market Strain (Zirngibel's). It is superb. Stocky seedlings 75c. per 100; \$5 per 1000. Send your orders now.

ALEX. McBRIDE, Alplaus, N. Y.**PANSIES.**

C'SSIE, BUGNOT and ODDER STRAINS, which for size, form, substance and beauty of coloring are unrivaled. Endorsed by the best judges in Europe and America. From imported seed and warranted genuine. Strong plants Sept. 1st, by mail \$2.00 per 100; \$18.00 per 1000.

Splendid English, all colors, very fine, assorted, 75 cents per 100; \$5.00 per 1000.

F. A. BALLER,

BLOOMINGTON, ILL.

PANSIES.

New crop of Vantier's Mammoth Pansy Seed now ready. For mammoth size, beauty and perfect form they rival any other variety offered. The colors are rich and varied; plants bushy and compact. The superb colors and immense size have placed Vantier's seed at the head. We guarantee this seed to be the finest ever offered. Small packet, 25c.; trade packet, \$1.00; 3 ounces, \$1.35; ounce, \$5.00.

H. G. FAUST & CO., Seedsmen,

64 and 66 N. Front Street, PHILADELPHIA, PA.

SMILAX PLANTS

in 2-inch pots, \$2.00 per hundred.

HENRY MUNDT, OAK PARK, ILL.**ROMAN HYACINTHS.**

We carry a good stock of these as well as all others.

	Per 100	Per 1000
White, 1st quality, 11 to 12 ctm.	\$1.50	\$15.00
" select, 12 to 15 ctm.	2.60	23.50
" XX, 13 to 15 ctm.	3.00	27.50
Single Blue.....	2.00	17.50
Light Rosy.....	1.75	16.00
Dark Rosy.....	1.75	15.50
Single Yellow.....	4.00	35.00

WRITE FOR SPECIAL PRICES ON LARGER LOTS.

NEW YORK:

12 Barclay Street.

J. C. VAUGHAN, CHICAGO:

146 & 148 W. Washington St.

BARGAINS.

	Per 100
STEVIA, from 3½-inch pots.....	\$ 4.00
DOUBLE SWEET ALLYSSUM, from 2½-inch pots.....	2.00
MUMS, from 2½-inch pots.....	2.25
Large field-grown plants.....	10.00
Geo. W. Childs, W. A. Manda, Roslyn, Mrs. E. D. Adams, from 6-inch pots.....	35c each

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

SHADE TREES.

I have a fine stock of Pears, Apples, Cherries, Quinces, Small Fruits, 30 kinds of Grapes. 8,000 Elms, Norway and Sugar Maples, 8 to 16 ft. 10,000 Norway, Blue Spruce and Arbor Vitae, 2 to 10 ft. 1,000 Scotch and Austrian Pines, 2 to 10 ft. 1,500 Purple leaved Beech, 3 to 7 ft. 700 Horn Chestnut, 6 to 12 ft. 500 Blood leaved Maples, 4 to 6 ft. 700 Birch, English and Cut leaved, 6 to 12 ft. 300 Oaks, four kinds, 8 to 10 ft. 2,000 White Pines, 3 to 6 ft. 1,000 Tree Peonies, extra strong. 500 Cal. Pines, 2 to 5 ft. 7,000 Roses, 2 to 4 ft. 5,000 Climbing Vines, extra strong. Best of facilities for Shipping—two Railroads and Sound Steamers to New York. Call on or address

NORWICH NURSERIES,

Stephen Crane, Prop. NORWICH, CONN.

Established 1870.

Ficus Elastica.

Extra strong plants, 6-inch pots, \$50.00 per hundred.

ANDORRA NURSERIES,

Wm. Warner Harper, CHESTNUT HILL, PHILA., PA.

MANAGER.

AUG. TOEFFAERT,

GHENT, BELGIUM.

Palms, Azalea Indica,

TUBEROUS BEGONIAS.

TRADE LIST ON APPLICATION.

JULES DE COCK, NURSERYMAN,

Ledeberg, Ghent, Belgium,

offers ARAUCARIAS, ASPIDISTRA, AZALEA INDICA, DRACENAS, PALMS, LAURUS TIMUS, an NOBILIS, with crowns or pyramids, SPIRÆA JAPONICA, and AUR. RET., all by the thousand. Packing free for cash with order.

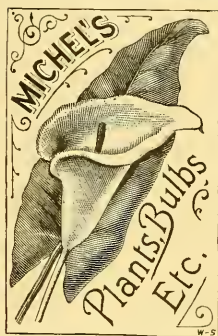
Price list on application

Russian or Cape Cod Violets.

The iron-clad, hardy kind; 1000 very strong clumps, \$10.00 per 100 net.

G. F. CHANDLER,

South Lancaster, Mass.

BULBS FOR FLORISTS FORCING.

Write for wholesale list.

MICHEL PLANT AND SEED CO., ST. LOUIS, MO.**Magnolias.**

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

CYCLAMEN PERSICUM GIGANTEUM

2-inch pots, showing bud, \$5.00 per 100.

CARNATIONS, Field grown.

LIZZIE MCGOWAN, MRS. FISHER, PORTIA

J. J. HARRISON, and others. Price \$7 per 100.

Address

J. G. BURROW, FISHKILL, N. Y.**P. SEBIRE & SONS,**

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada. C. C. ABEL & CO., P. O. Box 920, New York.

SPECIAL BARGAIN IN**Japanese Bulbs, Seeds, Shrubs, ARAUCARIAS, CYCAS, ETC.**

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St. SAN FRANCISCO, CAL.

Always mention the American Florist when writing to advertisers.

Baltimore.

The protracted drouth has about used up outdoor flowers and no one seems to regret it, for though some are beautiful yet the quantity run into a reluctant market caused even the best to go slowly, while the commoner things gradually became a sort of eyecore even to those who were not financially interested. There is but one thing more and then the harvest, in fact, that one thing may be regarded as the first fruits, so to say, and with the first chrysanthemums the summer dullness may be regarded as a thing of the past. The roses coming in are very fair for the season, but almost every thing else is "off" in quality, but the quantity offered is light and hardly up to the demand. A black beetle is eating the dahlias, and want of water has used up most other things.

O'Brien & Adams, a new firm of decorators, made a very tasteful decoration at the Phoenix Club on Wednesday. Campbell & Banker are at it again and decorated Brantley Baptist church, a new and very imposing structure, for dedication services.

Several of the winter blooming members of the trade have not yet opened their calyces, i. e., store doors, but with a continuance of the present hopeful feeling they will no doubt soon bloom out in full glory. MACK.

IN LAST ISSUE a typographical error in the advertisement of the Andorra Nurseries made them offer *Ficus elastica* in 6-inch pots at \$5 a hundred. It should have read \$50 a hundred, and for such a large size the price seems still very reasonable.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and Foliage Plants in the country.

FRESH DRACENA CANES, all sorts.
LILIAM HARRISII and **BULBS** for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The finest stock in the WORLD. Nearly three acres devoted to their culture.

SANDER'S,

ST. ALBANS, ENGLAND.

Thirty minutes from London.

Orchids Cheap as Good Roses.
BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's crop of the choice Sweet Pea varieties, named and mixed, that we grow. Please send for trade list.

MARIE LOUISE VIOLETS, strong runners, free from disease, \$20.00 per 1000. Smilax Seed, per oz. 30 cents; per lb. \$3.00. Lily of the Valley Pips, selected three year old crowns of the true large flowered variety, from consignment due in November, ex-steamer wharf at New York, per case of 2,500, \$19.00.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

TUBEROUS BEGONIAS.

The most reliable quality, the largest tubers and the best strain, at very moderate rates, are those grown by

JOHN R. BOX,

Who has made a Specialty of Begonias for the last 15 years, and was for 10 years the "Co." in John Laing & Co.

TUBERS of Singles and Doubles in mixed or separate colors.

SEED of Singles and Doubles in mixed or separate colors.

Special Wholesale Price List on application. Special Estimate for large orders by return mail. Every attention to careful shipment. And remember that the quality is a lot better than you can buy elsewhere. You want the best, I believe. Don't delay with a trial order to

JOHN R. BOX, Begonia Grower, CROYDON, ENGLAND.

• YOU WILL ALL WANT THE •

SNOW GREST DAISY

Now in the time to put them in for Christmas blooming.

The most enterprising in the trade are taking hold of it. The 25 000 nearly all gone. Don't forget that we are headquarters and owners of the ORIGINAL PLANT and have the largest stock in the world and offer them now 12 for \$1.00. Sample plant with bloom for 12 1/2 or 6 1/2 cents, post free; 100 for \$8.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy Seed and realize all that can be desired in the Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.00; 1/2 oz. \$1.60; 1/4 oz. \$3.00; ounce \$5.00.

New Crop Mammoth Verbena Seed in fine mixture; plenty of white; finest crimson and richest purples, with all the intermediate colors, in packets of 100, seeds 6c; 500 for \$2.25, while they last.

Also the beautiful Sweet Scented and novel Dakota Primrose Ice King. 100 seeds 25c.

Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

Very Cheap Plants

FOR SALE BY EXCHANGE.
Fancy-leaved Caladiums, 2 1/2-inch pots, \$5.00 per 100.
Cape Jasmines, 2 1/2-inch pots, \$5.00 per 100.
Eranthis, 3 colors, 2 1/2-inch pots, \$1.00 per 100.
Blue Water Lilies, 2 1/2-inch pots, \$1.00 per dozen.
Other aquatic plants as cheap in proportion.
Rooted Cuttings Cape Jasmines, \$1 per 100; \$3 per 1000.
I will sell the above for cash, or exchange same, as well as large Palms and other foliage plants, for winter flowering bulbs. I will take in exchange one very small greenhouse heating apparatus. Address F. J. ULBRICHT, Florist, Astoria, Ala.

FOR SALE

10,000 VIOLET PLANTS,

MARIE LOUISE.

Without any doubt the largest and healthiest plants in America.

\$8.00 per 100; \$70.00 per 1000.

GEO. M. ANDERSON, Agent.

WAYSIDE FARM, MILTON, MASS.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77. UPPER SANDUSKY, O.

GLADIOLI AND CANNAS

Now is the time to order if you want to BE SURE of getting the best varieties in quantities desired. Place order now; delivery will be made at such time as you desire.

Descriptive price list on application.

Wisconsin Flower Exchange,

131 Mason St., MILWAUKEE, WIS.

FOR SALE.

A fine lot of specimen Palms, Ficus, Euphorbia, Pandanus, Aspidistras, Dracenas, etc. If you need a few nice specimens write stating what.

JOSEPH BANCROFT, Cedar Falls, Ia.

CHEAP STOCK

Two-inch pot plants in prime condition at \$3.00 per 100.

5,000 *Latania Borbonica*.

2,000 *Allamanda Hendersonii*.

1,000 *Cladodendron Balfourii*.

1,000 *Cissus Discolor*.

5,000 Perennial *Phlox*, 10 best sorts.

5,000 Hardy Shrubs, 10 best sorts.

Below named variety of Palms, 2-inch pots, at \$5.00 per 100.

Corypha australis, *Phoenix canariensis*, *Areca rubra*, *Phoenix reclinata* and others, also from 3-inch pots, at \$5.00 per 100.

Silver and Gold Ferns.

Adiantum Hendersonii.

Pteris Cretica, *albo lineata*, *A. formosum* and Sword Ferns, Apple Geraniums, 3-inch, at \$6.00 per 100.

Grand Duke *Jessamine*, 3-in. pot, \$6 per 100. Tea and Hybrid *Roses*, 50,000 ready 2-inch pots, \$35 to \$50 per 1000.

GENUINE KENTUCKY BLUE GRASS SEED, extra clean, and fancy in quantity. Special prices quoted. Give quantity.

Address for anything in the Florists' Line

Nanz & Neuner,

582 4th Avenue, - - - LOUISVILLE, KY.

C. C. Abel & Company

P. O. Box 920, NEW YORK.

FLORIST'S, NURSERYMEN'S AND SEEDSMEN'S AGENTS,

For the following—

WELL KNOWN AND RELIABLE HOUSES,
For whom we solicit your orders:

C. VAN TUBERGE, Jr., Florist and Seedsmen, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen, Ussy, France. *Roses*, Fruit and Forest stocks.

V. LEMOINE & SONS, Florists, Nancy, France. New varieties of Plants and Bulbs a specialty, etc.

ERNST RIEMSCHEIDER, Florist and Seedsmen, Altona, Germany. Berlin Lily of the Valley a specialty.

THE TOTENTIAN NURSERIES, Limited, Dedonsvaart, Netherlands. Managing Directors: A. M. C. Jongkind, Goinck, A. M. C. Vander Elst.

EDW. VAN COPPENOLLE, Nurseryman, Ghent, Belgium. Established 1850. Large culture of *Arancasias*, *Azaleas*, *Indica* and *Mollis*. Bay Trees, *Begonias*, *Gloxinias*, *Palms*, *Rhododendrons*, etc., etc.

ALPHONSE ROCHE, Orlonles, France. Extensive and special plantation of *Immortelles*, and dyed in all colors and shades.

Catalogues (mention which) free on application when received for distribution. All orders for these houses should be plainly written and addressed to us.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell for cash, and freight prepaid in Yokohama, to every one who will favor him with an order. Catalogues on application.

The freight has to be paid in U. S. gold exchange; the goods are, however, paid for in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents Mexican silver dollars in Yokohama, freight to San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex. " 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 8-inch pot.

RHAPIS FLABELLIFORMIS, 25 cts. per shoot.

For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 " 70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

GRIFFIN'S UNEXCELLED TUBEROUS BEGONIAS.

Why buy inferior strains of imported Tuberous Begonias when you can get American grown tubers of the best quality at equally low prices. It is well known that Griffin's Begonias greatly surpass all others, and the entire stock of 25,000 were all sold at retail last spring at more than double the prices asked for other strains.



TWO FIRST-CLASS CERTIFICATES.



The Highest Award was given to these Begonias at the recent meeting of the Society of American Florists in Washington.

200,000 BEGONIAS IN THE OPEN GROUND, and two houses filled with specimen plants are now in **FULL BLOOM** on the grounds of the Cass Nursery Company, Westbury Station, Long Island, N. Y., 40 minutes ride from New York City. These fields of Begonias make the grandest floral display ever seen in America, and intending buyers and the trade generally, should not fail to see them before they are cut down by the frost. Come and see them and know exactly what you are buying.

ORDERS booked now for delivery in DECEMBER OR LATER. Prices and full particulars on application.

J. WILKINSON ELLIOTT,

EXCLUSIVE SELLING AGENT, PITTSBURG, PA.

ASTILBE JAPONICA VAR. GRANDIFLORA.

"THE PEER AMONG FORCING PLANTS."

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. "The latest blooming and most fragrant of its family."

Immense stock of splendid plants. Special rates on application.

☞ Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) **THE READING NURSERY,**

• JACOB W. MANNING, Proprietor. • READING, MASS.

Mention American Florist.

Azalea Indica.

Tremendous stock of large plants specially grown in pots for forcing and exportation.

For prices and particulars, apply to

EDW. PYNART, Nurseryman,
GHENT, BELGIUM.

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,
56 N. 4th St., Philadelphia, Pa.

Association "Flora" NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS, RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS **P. OUWERKERK,**

P. O. Box 1845. NEW YORK.

St. Louis.

Trade is very dull and will probably continue so for some time.

The waste places in and about our city are now made beautiful by a fine crop of *Carex involucreata*. Patches of it are seen ranging in size from a few rods to several acres. These carpets of bright yellow seen from a distance have a very pleasing effect. Why do not some of our plant dealers include this in their catalogue? Many less beautiful plants are well received.

Mr. Gny has a fine lot of white carnations, but they are in bloom too early to find a good market. He says he was unable to hold them back, they were so ambitious to bloom when it was known that St. Louis had got the convention of the S. A. F. for '93.

The St. Louis Florist Club held its regular meeting September 8. There was a good attendance. Our new president, Mr. John Young, is a very modest man, and it required a good deal of persuasion to get him to take the chair. However, we have no fears for the management of the club.

Mr. Alex. Waldbart entertained the members with an account of the journey to Washington, and how the next convention was secured for St. Louis. Resolutions were introduced by Mr. E. H. Michel and adopted by the club in which the thanks of the club were extended to the Cincinnati florists and the National Gardeners' Club of Washington for hospitalities received, to Prof. Wm. Trelease for the able manner in which he introduced St. Louis to the S. A. F., and to Alex. Waldbart for management of transportation details.

September 4 was open Sunday at the Missouri Botanical Gardens and between the hours of 2 and 6 p. m. the grounds were visited by about 4,500 people. Rain commenced to fall at about 3 o'clock and the visitors would have been much more numerous. The Garden is in excellent condition for the season, the introduction of city water and the consequent increased facilities for watering having made a marked beneficial effect on the lawns which are now bright and green, whereas in former years they were very brown by September 1.

J. C. DUFFEY.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

TOBACCO STEMS.

Put up in bales of 200 lbs. at \$1.50 per 100 lbs. Cash with order. F. o. b. cars Chicago.

LAKE CITY FLORAL CO.,
48 Adams Street, CHICAGO.

JULIUS TESMER & CO.,
Manufacturers of all kinds of

Ice Boxes

ESPECIALLY FOR FLORISTS,

937 to 941 N. Western Ave., CHICAGO.

—Telephone West 670.—

G. BENARD, Orleans, France.

Established 1849.

ROSES AND YOUNG PLANTS A SPECIALTY.

Particular offer of fine plants in large quantities.

ROSES ON OWN ROOTS, HYBRID, ROUBON, ETC., such as	Per 1000
La France, Ulrich Brunner, Captain Christy, etc.	\$ 40.00
On own roots, or grafted on Dog rose, Tea and Noisette, such as Marechal Niel, Marie Van Houtte, Catherine Mermet, etc.	\$50.00 to 55.00
Hermosa, Common Bengal, etc., 1st choice	17.50
On own roots, extra choice	75.00
Cramoisi-Superieur, Eugene de Beauharnais, etc., 1st choice	19.00
Extra choice	3.00
Madame Laurette de Messimy	41.00
Mlle. Angustine Guinoleux (or White Rose of France)	49.00
Climbing Roses, assorted, my choice of varieties, such as Ruga, Felicite, Perpetue, etc.	15.00

RHUS COTINUS, 1 year	3.00
WHITE MULBERRY, very fine, 2 years transplants	2.50
DRUTZIA GRACILIS, 2 years	3.50
HYDRANGEA PANICULATA GRANDIFLORA, 2 years	15.00
OLEMATHS VITICELLA, 2 years	4.00
LILAC CHARLES X, 2 years grafted	22.00

Fruit Tree Stocks in large quantities: Apple, Cherry, Plum, Quince, etc. For further information apply to

C. RAOUX, P. O. Box 2938, 296 Pearl Street, NEW YORK,

or **E. BENARD, P. O. Box 620, SAN DIEGO, CAL.,**

Sole Agents for the United States and Canada.

General Catalogue to be issued in September, will be sent free to all applicants.

Mention American Florist.

Adiantum Capillus Veneris.

The most profitable variety for the commercial florist; for reasons why, see FLORIST issue Sept. 1st, page 119. The extraordinary demand for this variety has made it impossible for us in the past to fill all orders on time.

WE NOW have a fine lot in splendid condition, ready for immediate shipment.

PRICE, \$8.00 PER 100.

A. Cuneatum, 5-inch pots, splendid specimens, 50 cents each; \$5.00 per dozen.

JOHN IRVINE CO.,

• • • • Bay City, Mich.

ROBERT B. YOUNG & CO.,

AUCTIONEERS OF

Plants, Bulbs, Shrubs, Orchids, Etc.,

205 GREENWICH STREET, NEW YORK.

SPLENDID STOCK FROM THE PHILADELPHIA GROWERS

TUESDAY, SEPTEMBER 20th.

Our regular sales of Palms and Ornamental Plants for present season will begin the **third week in September**. Special days have been set apart for the sale of Orchids.

CATALOGUES ON APPLICATION.



Fanny.



Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

BUTTED

GLASS SASH BARS.

Does away with all puttying and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

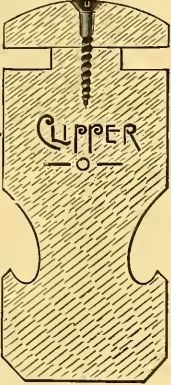
Clear Cypress.

Shall we book your order next?

Enclose 2c. stamp for sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, MGR. LOCKLAND, OHIO.



CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS SASH BARS

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 100 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. B. Perry & Co., 31 Warren St., Syracuse, N. Y.; A. C. Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis; Marshcutz & Co., 26 N. 4th St., Philadelphia, Pa.
J. A. Simmers, Toronto, Ont., Agt. for Canada.



FRUIT EVAPORATOR
THE ZIMMERMAN
The Standard Machine
Different sizes and prices. Illustrated Catalogue from THE BLYMER IRON WORKS CO., Cincinnati, O.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIÈRES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.,

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

FINE · LITHOGRAPHIC · WORK · IN · COLORS.

· · SEED BAGS, · ·

÷ NURSERYMEN'S · PLATES, ÷

CATALOGUE COVERS,

STECHER LITHO. CO., ROCHESTER, N. Y.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

BLOOMINGTON (PHENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of **FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS.** Priced Catalogue mailed free. Established 1852.
PHENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.



W. C. KRICK'S

PATENT Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 10c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEPHENS, N. Y.; A. G. ROLKER & SONS, N. Y.; Ed. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

ARTISTIC COLOR WORK.

Orcutt
COMPY
LITHOGRAPHERS,

48-50 WABASH AVENUE,

W. B. ORCUTT, Gen'l Mgr. **CHICAGO.**

FIRST-CLASS WORK.
NO FANCY PRICES.
GIVE US A TRIAL.

Greenhouse Gutters.

If Messrs. Busch & Purzner would use common roofing tar and with an old brush swab their greenhouse gutters they probably would never leak. Try it. Melt the tar and pour it into the dry gutter in small quantities and while it is in a liquid state spread it evenly with your brush or swab.

JAMES T. BAKER.

Bustleton, Phila.

In answer to Busch & Purzner's inquiry for the best material to prevent greenhouse gutters from leaking, would recommend Trinidad asphalt, such as is used for paving purposes. We have used this material some 18 months on gutters on which the tin had rusted out and find it after many experiments the most satisfactory material we have yet tried, and have this season used it exclusively on a lot of new houses.

This material can be readily procured in a similar form to pitch at from \$5 to \$6 per bbl. Our plan of applying it is to boil it in a large gypsy kettle (it requires a very high temperature to bring it to a liquid form), boiling it as thin as possible, then simply pouring it into the gutters with buckets, beginning at the highest point and letting each bucketful run as far as it will. Applied in this way one coat will run about one quarter of an inch in depth and one barrel will cover a gutter 12 inches wide by 100 feet long.

JACOB D. EISELE.

In answer to query in FLORIST of September 1 regarding leaky gutters, allow me to say that after six years of grief with leaky gutters, and during that time experimenting with tar, pitch, paint, putty and cement, we have decided that the best thing to do is to tin the gutters with a good quality of tin, painted well on both sides, and to recover it with paint once again.

Des Moines, Ia. J. F. MARSHALL.

OUR . . . HALF-TONE ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.
Mentloo American Florist.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green Houses or Farmer's Sheds. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass as they will hold each pane in place, preventing the glass from slipping and causing blinding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seecomon, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 6c cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.

Mention American Florist.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER

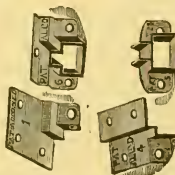
OR

ERICSSON

HOT-AIR PUMPING ENGINE

Catalogue with full particulars sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.

IMPROVED GLAZING.

Zinc joints for putting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps save enough glass to pay for the zinc. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's" Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O.
Mention American Florist

FLOWER POTS.

Standard Flower Pots, Machine Pots, Hand-Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

FIRST-CLASS GOODS LOWEST PRICES.

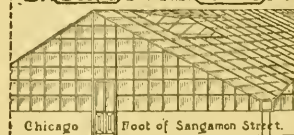
Send for price list. Give us a trial. We will surely satisfy you.

BOWMANVILLE POTTERY,
Bowmanville, Chicago, Ill.

CARNATION CULTURE; BY L. L. LAMBORN.

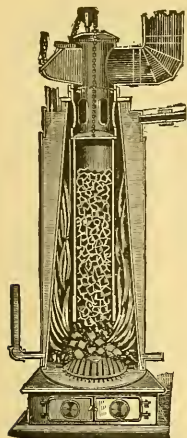
Third Edition, containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

A. DIETSCH & CO.
CLEAR EXPRESS & LINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & ETC.



Chicago Foot of Sangamon Street.

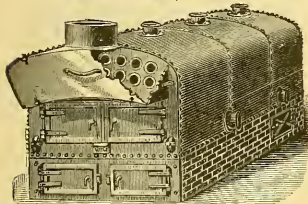
Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.



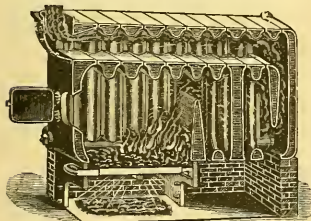
THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by
THE S. WILKS MFG CO. CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF

Window Glass
MUNCIE, IND.

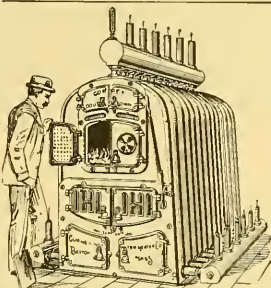
We make a Specialty of GLASS FOR HOT-HOUSES.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE LATEST AND BEST for heating GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling (New York: JOHNSON & CO., 71 John Street.
Agencies: (Chicago: RICE & WHITACRE, 49 So. Canal St.
(Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.

SMITH & WEBSTER, MAKERS OF GREENHOUSE PIPE, FOR HOT WATER AND STEAM, 193 Lake Street, CHICAGO, ILL.

Mention American Florist.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT
DRAINAGE

BENCH TILE

Used by all the leading Growers and Horticultural Builders.

For testimonials, circulars, etc., address

W. P. WIGHT,

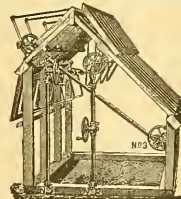
UPLAND GREENHOUSE, : : : MADISON, NEW JERSEY.



Save your Coal by using the
FLORIDA
HEATING APPARATUS
For Greenhouses
BEST IN THE WORLD.
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.

THE STANDARD Ventilating Machines



Received best awards at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

Mention American Florist.

Index to Advertisers.

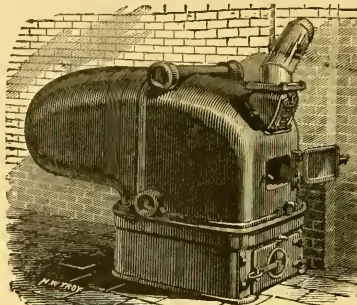
Abel C C & Co.	156	157	159
Anderson Geo M.	156	157	159
Anderson Nurseries.	156	157	159
Baker F. A.	156	157	159
Bancroft Joseph.	156	157	159
Barnard W W & Co.	156	157	159
Bayerdorfer H & Co.	156	157	159
Bentley J.	156	157	159
Berger H H & Co.	156	157	159
Blymyer Iron Works.	156	157	159
Buller F. A.	156	157	159
Buchner Louis.	156	157	159
Bussell Jos E & Son.	156	157	159
Buxton Letter Co.	156	157	159
Bowman's Ice Pottery.	156	157	159
Box John R.	156	157	159
Brackeberger & Co.	156	157	159
Brace L. B.	156	157	159
Braker & Heller.	156	157	159
Brown & Canfield.	156	157	159
Burns & Maynor.	156	157	159
Burrow J G.	156	157	159
Buxton Geo E.	156	157	159
Carmichael R. W.	156	157	159
Carmody J. D.	156	157	159
Chandler G F.	156	157	159
Chitty H E.	156	157	159
Cook John.	156	157	159
Crane Stephen.	156	157	159
De Cock Jules.	156	157	159
De Landauer Iron Works.	156	157	159
Detroit Heating and Lighting Co.	156	157	159
Diesch A & Co.	156	157	159
Dillon J.	156	157	159
Dreese & Conrad Co.	156	157	159
Dreer H. A.	156	157	159
James H W & Co.	156	157	159
Kelchman Theo.	156	157	159
Elliot J Wilkinson.	156	157	159
Elliot W H.	156	157	159
Faxon Wm.	156	157	159
Faulst H G & Co.	156	157	159
Field S B.	156	157	159
Cardner & Co.	156	157	159
Ginsler J. M.	156	157	159
Gilson J. C.	156	157	159
Gonzalez & Co.	156	157	159
Gurney Heater Co.	156	157	159
Hall A W E.	156	157	159
Hancock Geo.	156	157	159
Hart James.	156	157	159
Hartford & Nichols.	156	157	159
Herr Albert M.	156	157	159
Hess A H & Co.	156	157	159
Hill E F & Co.	156	157	159
Hippard E.	156	157	159
Hitchings & Co.	156	157	159
Hocker H M Co.	156	157	159
Hulsebosch Bros.	156	157	159
Hunt E H.	156	157	159
Hunt M. A.	156	157	159
Hunter & Purdy.	156	157	159
Henscroft W G.	156	157	159
Irvine John Co.	156	157	159
Jaud & Co.	156	157	159
Jennings E B.	156	157	159
Joosten C H.	156	157	159
Kennell Bros.	156	157	159
Kirk W. C.	156	157	159
Kroeschell Bros.	156	157	159
Kuelen C.	156	157	159
Lake City Floral Co.	156	157	159
La Roche & Stahl.	156	157	159
Lockland Lamp Co.	156	157	159
Lombard R T.	156	157	159
Long Dan I. B.	156	157	159
Lonsdale Edwin.	156	157	159
Lovett J T & Co.	156	157	159
McBride Alex.	156	157	159
McCarthy N F & Co.	156	157	159
McFarland J H.	156	157	159

McFarland J H Co.	159
McKellar & Sperry.	159
MacBean A S.	159
Manz J & Co.	159
Marling Hart & Co.	159
Marschall & Co.	159
Meyer John C & Co.	159
Michel Plant & Seed Co.	159
Millico W.	159
Moffatt G. J.	159
Mominger Jno C.	159
Moran Samuel C.	159
Moore Frank L.	159
Mullen Geo.	159
Mundt Henry.	159
Nanz & Neuner.	159
National Hot Water Heater Co.	159
Olson M.	159
Oratt C. The.	159
Onwerkerk P.	159
Peck & Sutherland.	159
Pierce & Coleman Co.	159
Pennock Sam'l S.	159
Phoenix Nursery Co.	159
Pierce Butler & Pierce.	159
Peterson A. N.	159
Peterson R. H.	159
Pflichter & Munda.	159
Pymott Edw.	159
Thindall A. L.	159
Ream Co.	159
Reading Nursery The.	159
Reek John.	159
Reed Wm B.	159
Reed & Keller.	159
Reichsneider Ernst.	159
Roberts D H.	159
Roehrs Theo.	159
Rosenkamp H.	159
Roiker A & Sons.	159
Sander & Co.	159
Schultz F W O & Co.	159
Schultheis Bros.	159
Schulz Jacob.	159
Schneider J Henry.	159
Scotlay John A.	159
Scotte P & Sons.	159
Sheridan W F.	159
Sherrwood Hall Sur.	159
Siebrecht & Wiedley.	159
Situations, wants.	159
Smith C A Floral Co.	159
Smith Nathan & Son.	159
Smith & Webster.	159
Stecher Lido Co.	159
Strick S O.	159
Stundacker Mrs J F.	159
Sunderbush H J.	159
Swayne Edw.	159
Tesmer Julius & Co.	159
Thompson Mrs J S L.	159
Toeffert Aug.	159
Tracht J A & Son.	159
Tricker Wm.	159
Urbrecht F. J.	159
Vaughan J C.	159
Voss Fred L.	159
Weathered Thos W.	159
Weber & Don.	159
Welch Bros.	159
Willittin Pot Co.	159
Wittendrick Geo B.	159
Wight W F.	159
Wilks M F Co.	159
Wisconsin Flower Ex.	159
Wolf L Mfg Co.	159
Wood Bros.	159
Young J M & Co.	159
Young Robt B & Co.	159
Young Bros.	159

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.



Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Greenhouse Pipe and Fittings



Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.

Do you want a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

OUR NEW TRADE DIRECTORY

FOR 1892
Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.
Price, \$2.00.
AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

THE GREAT FLAT SAVER

THE CELEBRATED

BOLTON

HOT WATER HEATER

ITS FIRE HOLDING QUALITIES UNEQUALLED.

GREENHOUSE HEATING.

DETROIT HEATING AND LIGHTING CO. SOLE MFRS.
Lieb and Wight Sts., DETROIT, MICH.
NEW YORK, 26 Liberty St.
LOUIS, 42 Pearl St.
CHICAGO, 88 Lake St.
ST. LOUIS, 414 N. Broadway

THE SPENCE HEATER

HOT WATER

FOR HEATING

BY HOT WATER CIRCULATION:

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

Most Desirable.
Greatest Economizer.
THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

SCOLLAY'S
IMPROVED
PUTTY BULB,
For Glazing Sash, Etc.
— ALSO THE —
Patent Plant Sprinkler
For sale by your Seedsmen,
or sent, postpaid, for \$1.00.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Send Stamp for Catalogue.



THE AMERICAN FLORIST



America is "the Prow of the Vessel; th... ay be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, SEPTEMBER 22, 1892.

No. 225

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Pub-
lishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, St. Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., Aug. 1st, 1892.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

The Columbian Exposition	165
Notes from U. S. Botanic Garden	165
The Rose Society	166
Retailer's Chrysanthemums	166
The S. A. F. and the Glass Industry	166
The Wistaria in Japan (with illus.)	167
Carnations	167
Coming Exhibitions	168
New York	168
Philadelphia	168
Newport, R. I.	169
A Convenient and Durable Label (illus.)	169
Toronto	169
Chicago	170
Boston	170
Baltimore	170
Worcester, Mass.	170
Pittsfield, Mass.	171
St. Louis	171
Tulip Border at the World's Fair	171
News, Notes	171
Piping	172
Bulb Growing in the South	174
The Rose Worm	174
The Seed Trade	175
Quarantine Regulations at New York	175
Cincinnati	176
Butted Glass	178
Finney Caladiums	178
Autumn Shading	180
Elmira, N. Y.	180
Bulb Culture in the South	182

By A NEW DECISION of the New York general board of appraisers, dated September 16, all natural grasses and flowers not touched by any artificial process of bleaching or preparing will be entered free of duty if classified as crude vegetable substances. Bleached wheat, formerly classed as straw at 30 per cent duty, now comes in as vegetable substance, bleached, at 20 per cent.

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

The Columbian Exposition.

A sharp frost on the 15th made quite an impression on some of the outside stuff, but all the tender plants for future use are now indoors. Some of the tuberous begonias are cut by it, but they have made sufficient progress to demonstrate the need of shading here, though they may succeed without it in the moister atmosphere near the coast.

On the flooded island the hardy erianthus is planted in clumps for a permanent feature; the island is very gay with *Helianthus multiflorus plenus*, which is planted through the shrubbery—an excellent arrangement for this flower. The island is much improved, walks and turf being in better order, but the permanent bridge is not yet erected, so it is often necessary to take a boat to reach it.

In front of the building the pansy beds are being cut out in the turf, the sod removed being used in other localities. These beds will be planted in a unique and beautiful arrangement, which we shall picture later. They will be planted very shortly, the pansies being protected by frames during the winter. They have already about 80,000 pansies outside, and this is probably not more than one fourth of the whole number to be used. Speaking of pansies, Mr. Thorpe is greatly pleased with the old yellow *Viola cornuta*, parent of our tufted pansies; it has been blooming incessantly all summer, and is still as full of flowers as ever. It must be said that this has been a very cool summer on the whole; still, there has been some very warm weather, sufficient to try the blooming qualities of any *Viola*. *V. cornuta* is extremely fragrant, an attraction shared by its hybrids, the tufted pansies.

In the Horticultural Building the heating apparatus is being put in place; it is ingeniously arranged inside the large mound under the dome. The system used will be new to many, though it has been tried before in England, being used at one time at Clatsworth, the Duke of Devonshire's famous place. It is the Polmaise system of hot air heating, the heated air being moved by fans through ducts which open near the roof, while the cold air is sucked into return ducts on the floor. The system is elaborated by new machinery, and is regarded as simple, efficient and cheap.

The large *Monstera deliciosa* is now in bloom and attracts much attention. The large decorative plants in the main building will be planted out almost immediately. An immense quantity of creeping and running plants, glechoma, lycopodium, tradescantia, etc., is being prepared, so that every bare space may be covered up.

A little idea in potting, which the chief referred to smilingly as "Thorpe's patent drainage system," was noticed among

the primulas. Instead of the usual handful of coarse potsherds drainage was assured by the use of a handful of excelsior about an inch and a half thick, pushed firmly into the bottom of the pot. The excelsior lasts for at least 12 months; it is convenient, easily handled and gives even and perfect drainage, being in the latter quality alone far superior to the rock.

A large batch of musas were pointed out; they were *M. Martini*, which seems intermediate between *M. sapientum* and *M. ensata*. The leaves are very similar to *M. ensata*, but seem very much tougher, which will be a great advantage in planting out. These musas were sown April 10; by the middle of September some of them were five feet high, having eight leaves. These plants are to be used in quantity in bedding. Among the herbaceous plants columbines, campanulas and foxgloves in complete variety are to be used in quantity.

A feature in the Californian building will be a pampas plume palace. The building, inside and out, its decoration and furnishing, is to be composed of pampas plumes, natural and dyed.

Notes from U. S. Botanic Gardens, Washington.

A few plants, which are now attracting attention at the Botanic Garden, are *Phrynium variegatum*, which, though somewhat disappointing as a stove plant, is doing remarkably well planted in the open air. It is planted in a shady place such as the north side of a house, and given plenty of water. It makes strong growth, being beautifully and irregularly variegated with light and dark green and yellowish white, the leaves being from 8 to 10 inches long, and 3 to 4 inches wide. It is a native of Singapore, having been introduced in 1886. It is strikingly beautiful, and attracts much attention, being well worth giving a trial outside. It is beautifully illustrated in Nicholson's Dictionary of Gardening.

Phyllanthus atropurpureus and *P. nivosus*, order euphorbiaceae, are natives of the South Sea Islands; they are deciduous during the resting season. The new leaves of *P. atropurpureus* are at first dark green, but the purple hue is soon developed under the influence of strong light, and the plant is soon robed in this rich color. *P. nivosus* is frequently entirely covered with a mottling of white, in some cases partially varied with green; when well developed it has the appearance of a sheet of snow. They both grow rapidly when planted out in the full sun, in good rich loam; when given plenty of water they will continue to put out new shoots, which is their chief attraction. They are admirably adapted to mingling with sub-

tropical plants, especially among crotons, where they give a grace and elegance, as may be seen in the tropical beds at the Botanic Garden, where they attract the attention of everyone visiting the grounds. They are both easily propagated, either from cuttings or division of the roots. The cuttings should be of young wood, with a heel, placed in sand with bottom heat. The roots may be cut in pieces, say one inch long, and put in boxes filled with a mixture of sphagnum, sand and leaf mould, covering them about one-fourth inch with same mixture. They should be placed in propagating house with bottom heat, and treated much the same as root cuttings of bouvardias.

C. LESLIE REYNOLDS.

The Rose Society.

I have heard some talk of this anticipated society with interest, but it has come only from rose growers—I mean those florists who make roses their specialty. The arguments advanced were in all cases about the same as those given by Mr. May in the *FLORIST* of September 8. I feel an interest in the matter and would like to see further developments; as discussion is invited I shall ask a few questions that may bring forth further information for others as well as myself. I feel delicate about criticising anything which Mr. May says pertaining to the rose, but if it is understood that I do so for the purpose of gaining information I'm sure Mr. May and some others will excuse my candor in expressing a few thoughts on the subject.

It seems to me that the greatest undertaking advocated is backed by the weakest argument, I think that \$10,000 deserves a good one. One complaint made is that "the rose men have been too busy chasing the almighty dollar;" will not the proposed plan add at least another long winded chase? \$10,000 is worth a good run. It might be that after a rose society was formed it would be found desirable to have the money for some purpose, but we haven't been told yet what we want it for. The chief topic for discussion seems to be which faction will have the most to say about how it is to be spent. It is proposed to bank \$10,000 and then elect a board of directors to devise means of spending it to the best advantage for the benefit of the rose. This argument appears to contradict itself further on by suggesting that we "stimulate some enthusiastic rosarians who have the time and means to put into the hybridizing and raising of improved varieties;" the society could offer \$3,000 premium for a certain class of rose. This is the part I don't like; the public demand for improvement is the only legitimate stimulant. This forming a pool for the benefit of a person who "has the time and means" is working more for the benefit of one who does not need it. I venture to say that there is not a rose grower of any note in this country who would not give \$3,000 for a first class rose which was a decided improvement on existing varieties. In this way he gives what he considers it is worth, and there is simply an exchange of values. A stimulant is not healthy or lasting. If the society came across a person of rare ability who, they thought, could accomplish some good, but who had not the time or means they might employ him or her to carry on the work, and the society would have no trouble in paying a fair salary, but this is supporting and not stimulating.

I for one will not subscribe \$100 or \$5 that may be used for stimulants, but I do

wish to see the rose society formed. Are there not too many varieties put on the market every year, and is not this caused by the "immense demand" spoken of? Does not this go to show that there are many who give time and thought already to raising new varieties? Is it not a fact that the great number of new varieties creates more trouble and expense than the deprivation of them would do, and would it not be a greater benefit if we put in our \$5 annually for the support of a permanent trial ground on which to examine all these new-fangled conundrums? The establishment of such a place could also be utilized as the nucleus of a school garden. I think such an arrangement would pay and build itself up in a healthy way.

C. B. W.

Will the *AMERICAN FLORIST* allow me to make some reflections on the broad, transparent, admirable ideas expressed in the issue of September 7 by Mr. J. N. May on the Queen of Flowers, his own special queen, I should think.

Being eclectic in all things, I am always looking forward for what I believe in my conscience is best. I may err; this is human. I do not want or feel like making commentaries on Mr. May's propositions; they need none, for every word speaks for itself. I endorse everything proposed. I sanction the *whole* with all my energy and enthusiasm—with an auxiliary proposition. I subscribe \$200 for the rose, as spoken above, and one-half of it for the satellites of that queen! (not any other). That is to say, in plain English, for all sorts of vegetation; no ostracism in the creation. God has created the creatures and the plants also, the roses and the thorns. Let us have no exclusion in the different classes of plants, as man has done during all the past generations up to this day among the present society. Let us be free as air, and have no more of that word "materialism"—so much used and so very little understood by the majority of human kind.

L. MENAND.



Retailers' Chrysanthemums.

Retail trade in small towns often calls for a class of stuff different from that demanded in cities, but the difference becomes less as the taste grows more general. At this season we find a good demand for chrysanthemums in 4 to 6-inch pots. The Japanese section is generally preferred, most buyers stating that they want "some of those fluffy ones." The anemone flowered and Chinese seem less cared for, though some of the pompons are liked, especially as many of them form such neatly shaped small plants. Plants for this use must be pinched well into shape, and of course they must never be staked. This matter of staking chrysanthemums is so often fearfully overdone even by good growers; we have seen exhibition plants so excessively staked that they merely looked like a forest of sticks with a few flowers showing among them.

The plants for retailing should be disbudded until about the first or second week in September. Care must be taken to keep the foliage in good order, using plenty of tobacco to keep down fly. It is a good plan to keep tobacco stems scattered over the bench, in addition to the use of smoke and tobacco water. In many places tobacco stems are to be seen scattered in the walks also, but this is an abominably untidy practice, specially objectionable on a retail place, where visitors may be expected at any time. The plants must not be crowded together or they lose shape and grow leggy, the foliage also suffering.

Chrysanthemums for cutting should be planted out on benches, receiving about the same treatment as those in pots. Where fine flowers are required the plants should be continually disbudded, but not grown to a single stem, about four flowers being left to mature on each plant. This is the system pursued by many of the growers for New York markets; they find it pays better to produce four superlative blooms than some dozens of ordinary ones. In a local retail trade, however, it may not pay to carry out this disbudding so rigorously as when the flowers are to be produced for a high priced market.

In districts where a chrysanthemum show is a novelty the retailer will find it pays to arrange his houses for the purpose of holding such an exhibition—free, of course. A single house may be displayed arranged with an eye to effect, chiefly growing plants, but with a few cut flowers in attractive vessels. The cut blooms will sell readily and the plants will go too, besides laying foundations for a larger trade next year.

For purposes of display it will be found an excellent plan to plant four or five plants together in a box; they will make a big showy mass when in flower, and will save the trouble entailed by growing a single specimen plant, which in a small retail trade would hardly be salable after all.

E. L. T.

The S. A. F. and the Glass Industry.

It seems strange that the S. A. F. has not yet made any effort towards improvement in the glass supply. Nowadays, when the word "can't" is almost useless, we should not allow so many faults in our glass without any effort to remedy it. We are given to understand that the heat rays and light rays are totally different. The object in making glass roofs is to admit the light rays, but as we now make it much of the heat enters also, and as the roof is all sorts of shapes and sizes we get many a lens which receives the heat rays in such a way as to burn the leaves of our palms, which in turn burns holes in our pockets to let the money out.

Can not a glass be made that will admit the light rays without the heat rays? Such a glass would be a wonderful improvement. Just think of it—we should not require any shading whatever, and the loss of heat during cold weather would be very much less, as the heat would not find its way out any easier than it could get in. I should not overestimate the value when I say we could afford to pay four times as much for such a glass as we do for the present makeshift. If this fact was impressed upon the glass-makers by the S. A. F. don't you think your extra money would induce them to secure a better product? Why not try it? Would there be any harm in the S. A. F. offering \$500 for a sample of glass which would exclude the heat rays and let in the



THE WISTARIA IN JAPAN

light? Would such an inducement discourage a glass manufacturer? If you think so, let us draw it mild to begin with, and at the St. Louis convention offer \$50 for the best fifty feet of glass suitable for greenhouse purposes. We must do something to get the glass works awake to our requirements, and at the same time watch their progress. It needs careful study on both sides, for our interests are certainly mutual.

Why not provide a good illustrated lecture on glass for our next convention; invite the glass men to show us their wares and explain what little they know to us, and we will tell them what to learn next. Why can't we have glass on rollers, like curtains—malleable glass. I would like to know if any one else has ever tried a coat of ground pumice stone and oil for shading a palm house? I think it the best, but would like to have a discussion on this subject.

C. B. W.

The Wistaria in Japan.

The accompanying engraving is from a photograph sent us by Mrs. H. H. Berger of San Francisco, who obtained it from Japan.

The plant shown is in a public garden in Tokio, and the racemes of bloom

seen in the picture were several feet in length. But such blooms are produced only by plants of very great age, such as the one illustrated, which is several hundred years old. And there are not more than a half dozen such plants in all Japan.

The photo from which the engraving was made had been beautifully and accurately colored by a native artist and made a most charming picture, the engraving giving only a faint idea of its beauty.

Carnations.

A letter from Mr. C. W. Ward, East Moriches, N. Y., dated Sept. 6, was received to-day, and as there is much of interest in it I take the liberty of making some quotations from it for the benefit of the readers of the AMERICAN FLORIST.

"We have a house of McGowan, Lamborn and Puritan planted and growing nicely. We commence planting a mixed house to-morrow, Aurora, Thos. Cartledge, Grace Darling, Orange Blossom, Daybreak, Golden Gate, Golden Triumph, Grace Wilder, Rosalind, and Hinz's, and next week we will plant a house of the three strains of Portia, viz., Defiance, Lady Emma and Portia and a few others.

If I get time to build another small house I will build a 10-foot house with solid beds and try it full of Fred Creighton, of which I have a fine lot of plants now in full bud.

"The Dorner seedlings are all growing finely and show extra long stems and very large flowers 2 to 2½ inches across whenever I let them bloom.

"Orange Blossom is an enormous bloomer, some plants having fifty to seventy buds on now. Golden Triumph is a fine grower, healthy and looks like an abundant bloomer. Aurora and Thos. Cartledge are like Orange Blossom for buds—chuck full.

"Lady Emma is identified with Portia in habit and foliage, stem slightly longer, flower more finely fringed and fuller and lighter in color, and plant seems more healthy. I find blooms among Portia so like those of Lady Emma that it is impossible to distinguish them, yet a bunch of Portia and a bunch of Lady Emma show a discernible difference. Scarlet Defiance seems identical with Portia thus far. (The italics in both cases are ours.—E. L.)

"Puritan shows up fine in every way, while Lamborn is better than ever. * * * It seems to me we should succeed in growing finer plants than ever this season, as our stock is in so much finer condition.

Bordeaux mixture seems to cure the carnation root very quickly, but the spot (Septoria Dianthi) yields much less readily and is a much more obstinate disease to contend with. I am experimenting all the while with the spot, and I hope to find a specific. The ammonia and carb. of copper or ammonia and sulphate of copper mixture is the best thing I have tried so far. I am trying "Fostite," but have had no definite results thus far. Some growers make light of the spot, but it takes me two years to get thoroughly rid of it when once it has become established on the stock."

Respecting Portia and Lady Emma, it is now considered by some expert growers about New York that the latter is a selected strain of the Portia. It was so reported by the committee on nomenclature at the last meeting of the S. A. F., held in Washington. The results of Mr. Ward's experiments and observations will, however, be watched with interest. As for the true Lady Emma, it is believed to be out of cultivation entirely. E. L.

Coming Exhibitions.

Montreal, Sept. 15-23—Annual exhibition Montreal Hort. Society. D. Williamson, Sec'y, 76 St. Gabriel St.
Boston, Oct. 1-4—Annual exhibition fruits and vegetables, Mass. Hort. Society.
New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm. Plumb, mgr. of exhibition, Madison Square Garden.
Philadelphia, Nov. 7-11—Chrysanthemum show, Pennsylvania Hort. Societ. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Galt, Ont., Nov. 8-10—Chrysanthemum show Galt Hort. Society. Edward Lane, Sec'y.
Toronto, Ont., Nov. 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 8-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Hartford, Conn., Nov. 8-10—Chrysanthemum show, Hartford County Hort. Society. Julian S. Allen, Sec'y.
Boston, Nov. 8-11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 8-11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.
Milwaukee, Wis., Nov. 8-11—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. A. W. Bennett, Sec'y, 108 Wisconsin St.
Minneapolis, Minn., Nov. 8-11—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1118 W. Lake St.
Worcester, Mass., Nov. 9-10—Chrysanthemum show, Worcester Hort. Society. E. W. Lincoln, Sec'y.
Montreal, Nov. 9-11—Chrysanthemum show Montreal Gardeners' and Florists' Club. H. Stocking, Sec'y, 250 St. Denis St.
London, Ont., Nov. 10-11—Chrysanthemum show London Gardeners' and Florists' Society. Wm. Gammage, Sec'y.
Washington, Nov. 15-17—Chrysanthemum show Washington Flor. Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.
Baltimore, Nov. 15-18—Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Ferry, Sec'y, 22 N. Liberty St.
Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.
Cincinnati, Nov. —Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Pittsfield, Mass., Nov. —Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. —Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
Bay City, Mich., Nov. —Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.
Pittsfield, Mass., Nov. —Chrysanthemum show Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y.
Providence, R. I., Nov. —Chrysanthemum show R. I. Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

YOU CAN never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

New York.

The past week has shown considerable improvement in the cut flower trade. Roses are steadily advancing in quality, and prices, although very low as yet, are showing more uniformity.

An agreeable surprise at the September meeting of the Florist Club was the reading by Secretary Young of the names of twenty applicants for membership. This will bring the roll up to about two hundred, and is a good index of the prosperity upon which the organization has entered. The great Madison Square chrysanthemum show is now becoming a topic of general interest. It will open on Tuesday, Nov. 1, at 2 p. m.

The long talked of plans for a club room have finally culminated in the appointment of a committee with full power to lease suitable quarters for a period of six months from October 15 as an experiment. The club will thus have a convenient reception room in which to meet visitors to the chrysanthemum show, and the extent to which the room is used during six months will be a fair test of its usefulness and a reliable guide for future action.

The matter of a proper representation of New York State in the Horticultural Department of the World's Fair came up at the meeting, and the general sentiment appeared to be that if cooperation on the part of the state is not soon apparent the club should take the matter into its own hands. Some surprise was expressed that the State Commissioner in charge of this department had not been heard from as yet.

A vote of thanks for contributions of smilax and flowers used to decorate the special train to Washington in August was tendered to Mr. E. Koffman and others.

On the president's table were some fine nymphæas from W. Tricker, double petunias from Geo. Bennett and enormous heads of Hydrangea paniculata grandiflora from Wm. Dihm.

The John Henderson Company have rebuilt this season two of their large rose houses, comprising about 6,000 feet of glass. One of these houses has been filled with Gontier and the other with La France.

The Bowling Club held its annual meeting at the alley on September 12. The attendance was unusually large. Mr. C. W. Hillman, of the John Henderson Company, a new member with his record still before him, surprised the old timers by stepping in and winning the club medal, which has adorned Mr. Alex. Burns' manly bosom for the past two weeks. After the customary practice games the club settled down from fun to seriousness and the annual election was proceeded with, the vote resulting in the election of all the old officers. A new office, that of "official scorer," was constituted and Mr. Wm. Dihm was elected to this important position, the gravity of which seemed to affect him greatly. A discussion regarding the expense of an official score book brought Mr. Robt. B. Young to his feet with an offer to present one to the club. A motion to accept the offer with thanks was responded to with a vociferous "aye." It was further voted to limit the membership hereafter to thirty.

A spirited discussion regarding the best method of providing refreshments for the club while in session then followed, and at last accounts had not yet come to a close.

Robt. B. Young's first auction sale of the season took place on September 15. The

stock consisted of palms and ornamental plants from Bonn & Dressell, Julius Rohrs, J. M. Keller and P. B. Meissner. There was a good attendance.

Last Monday (19th inst.) the New York Florists' Club went, by special invitation of Mr. Thos. P. Griffin, to view the tuberous rooted begonias at the Oasis Nursery. The party, which numbered thirty, left Long Island City at 10:50 a. m. They were met at Westbury Station with teams and driven to the nursery, where two acres of tuberous begonias, exposed to full sun, were in bloom out of doors, the plants being from seed sown last January. It was a magnificent sight. In the houses was also an indescribably brilliant display of plants blooming, and which were for seed purposes. They are working on several new strains, one called Bantams, dwarf growing, for small neat pot plants. One strain of hybrids was fragrant, Baumannii, also fulgens, having been used as parents. Every shade of color, from white to deepest red, was represented in the collection, and it was also very strong in fine yellows and fine fringed varieties. Some of the blooms were seven inches in diameter. The party was entertained by a lunch, at which all drank the health of Mr. and Mrs. Ladenburg and Mrs. Griffin, and declared the day a most enjoyable as well as profitable one.

Philadelphia.

David McDonald died September 7, of cancer of the stomach. He was a Scotchman, and came to this country about twenty years ago. He followed jobbing gardening for some time, and finally built greenhouses at Fifteenth and Dauphin streets, where he has since conducted a successful business. He leaves a wife, but no children.

Business is picking up slowly but surely, and before long the "We close at 6 p. m." will be relegated to the closet, while the "glad to see you at any time" appearance of the store will be taken on. The inviting air that a nicely decorated window and front gives to a place of business makes customers and helps to keep them as well.

Beauties are appearing, but they are a bit short in the stem as yet, in fact, a good bit short; still the growers say they are equal to the price, from 5 to 8 cents, and they are about right. Other roses are in fair supply at from 2 to 4 cents, the quality being good for the season. Single violets have become plenty and sell for \$3 a hundred bunches of about 25 flowers each.

Mr. Durfee of Washington was in the city for a day or two recently; and we were also honored by a visit from Messrs. J. Weir of Brooklyn, George Stump of New York, and another friend, who, though here on business, extended their time a little so as to visit the club and have a game on our alleys. On looking up the score book, we find "Johnny" to be quite a roller. If he should happen to get into Capt. Koch's neighborhood it would not surprise us a bit to see him on the team before long.

Three gentlemen who are away up in "pinks," Messrs. Lonsdale, Pcnnock and Swayne, had a little three-cornered meeting at the club room one day last week. We did not learn the result of their deliberations, but hope it is not their intention to put the pinks away up in price.

The first sale of plants from this neighborhood in New York will take place on the 20th inst. at Young's auction rooms. These sales have become quite a feature

in the New York auctions, and when it is known that Philadelphia grown stock is to be offered there is sure to be a crowd on hand. Philadelphia has the name of being a trifle slow; this probably is said on account of the staid character of some of her citizens, but the active business men are always found up front, and none of them keep their end up better than the florists, even if it does fall to our lot to say it.

There is a little affair involving a fifty dollar bill, in which a fellow by the name of Dan and another nicknamed Bob are mixed up. We believe it's all about a cigar. They are both in quarantine, as it were, for a month, after which time there will be such a fumigation as has not been seen for many a day.

John Westcott's team rubbed up against the Washingtonians last Thursday evening with disastrous results, they being beaten, or rather snowed under, by a total of 405 pins in the three games that comprised the match. On this occasion there were three club records broken. In the second game Capt. Anderson's men made 969, which is the highest score made so far by six men in one game. The total score was: Washingtonians, 2,823; Westcott's team, 2,418. The total score of the winning team is the best ever rolled on our alleys, and as no team has ever been beaten by 405 pins before, the Westcotts have made a record which they are likely to hold for a long time. K.

Newport, R. I.

The annual exhibition of the Newport Horticultural Society, held on Sept. 6-7-8, was the most successful in the history of the society. Few places afford a better opportunity for making a grand display of show plants.

The exhibition was arranged in a large oblong tent, with a smaller annex, on Bellevue avenue, near the Ocean House. The tent was lighted with electricity, and during the afternoon and evening an orchestra, screened by tall palms, discoursed sweet music. The plant collections were mainly from the conservatories connected with the many noted private estates in Newport, and the arrangement of the groups was most creditable to the taste of the skilled gardener in charge. A number of the local florists also contributed to the success of the exhibition, handsome table decorations being arranged by Gibson Bros., Miss Padden and G. H. Kiggs.

The largest group, occupying the center of the big tent, was from Mrs. H. M. Brooks, James Hill, gardener. It included enormous cycads, ficuses and other tropical trees, among which the "Travelers' Tree" of Madagascar was one of the most interesting objects, and was edged with crotons, ferns, pandanuses, caladiums, etc. There was also a fine collection of aquatic.

The display from Prof. Fairman Rogers, J. S. Cowles, gardener, was one of the best in the show. It included specimen stove plants, nepenthes and finely colored decorative foliage plants and a tub of nymphæas. A beautiful specimen of *Ouvirandra fenestralis* (the Lace Plant) attracted much admiration.

J. P. Kernochan's group was artistically arranged, consisting of caladiums, anthuriums, marantas, etc., bordered with adiantums. The supports of the tent were ornamented with vines of *Allamanda Hendersonii* from this exhibitor.

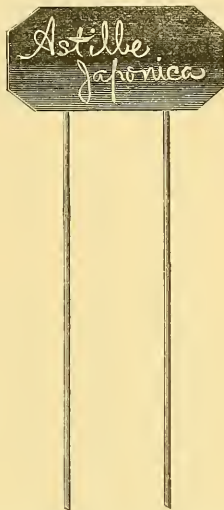
In the exhibit of Mrs. August Belmont, Joseph Gibson, gardener, a special attraction was the *Peristeria elata* or Holy

Ghost flower. Mrs. Edward King showed tuberosus begonias; gloxinias and ferns; J. W. Ellis, Alexander McLellan, gardener, a group including some finely colored crotons; J. M. Fiske, Charles D. Stark, gardener, a table of begonias, caladiums and palms; Joseph Tuckerman, Thomas Beattie, gardener, a fine collection of ornamental stove plants, and Louis L. Lorillard, F. J. Colwell, gardener, specimen nepenthes, palms and ferns.

The show was for exhibition purposes only, no premiums of any kind being offered.

A Convenient and Durable Label.

The accompanying engraving represents a label now adopted at the Botanic Garden at Washington for the rockery and herbaceous plants.



It is made of zinc, $3\frac{1}{4} \times 1\frac{1}{2}$ inches, the legs, which keep it firm, being soldered on the back of the label. It was first used for labeling the herbaceous and alpine plants in the famous collection at the Royal Botanic Gardens, Edinburgh, Scotland. Mr. Lindsay, the curator there, uses acid which makes a beautiful black lettering, but in this country the acid will not stand the climate, and to meet the want long felt for a neat and durable label, and we may say permanent label (for that is what it is), the present style of lettering was brought into use by Mr. G. W. Oliver, of the Botanic Gardens.

The label has first to be painted white, using the best white lead and linseed oil and allowed to get thoroughly dry. Then paint with ivory or drop black, mixing it with a small quantity of coach varnish. Then while it is still fresh, with the back of a broad pointed steel pen write the name on the label. This makes a very distinct white lettering, looks well, hasn't the glare of the white painted one, and is therefore not so conspicuous but attracts attention, lasts longer than the white painted labels and can be removed in the same way as described.

They cost us \$2 per 100 ready for painting. They can be made by any tinner. With the proper material at hand they

could be made by any one who can use a soldering iron. The legs are made of galvanized wire in one piece turned around the back of label and soldered firmly in place. C. LESLIE REYNOLDS.

Toronto.

A large *Phylloctactus latifrons*, 12 feet high in the Normal School conservatory, has just borne over 40 flowers—12 the first night, 22 the second, 4 the third and 5 the fourth; it was a sight worth seeing the second night. A short time ago in the same place two plants of *Cereus triangularis* bore 10 flowers apiece; 7 were open at once on one of the plants.

The Gardeners' and Florists' Association met in the Board Room at the Exhibition grounds last Tuesday and listened to what the Dominion and Provincial Commissioners for the World's Fair had to say on the subject of a horticultural exhibit. The matter will be brought up at the next regular meeting of the club on the 21st and action taken in order to locate suitable and desirable plants and to find out whether the owners would be willing to part with them for a while for the glory of their country.

As I said in my last notes, the horticultural show at the Industrial Fair now in full swing beats the record in that line in this city. The five tables with displays of stove and greenhouse plants were simply magnificent. Noticeable in the first prize table (Mr. Geo. Reeves, Reservoir Park) was a very fine specimen of *Picus Parcelli* (a wonderfully showy plant), a large well grown *Cycas revoluta*, many crotons, etc. Mr. John Cotterill's table, which took the second prize, was also very good and tastefully arranged; it contained about 400 clean, healthy, salable palms, crotons, marantas, ferns, etc., interspersed with *Lilium lancifolium rubrum* and album. The third prize went to Mr. Houston of the Central Prison. There were some beautiful specimens on this table amongst which several *Alocasia macrorrhiza*, *Pandanus utilis*, *Maranta zebra*, *Alsephilus australis*, and a lot of first class palms, showed up well; this table being 38 square feet larger than the others along with an insufficiency of smaller plants for the outside was a little too loose and open.

Mr. Houston took first for 24 specimen stove and greenhouse plants, 12 exotic ferns, 3 palms and 6 palms, 12 new or rare plants and 12 fancy caladiums. A grand lot of 12 rex begonias, which would have filled a decent sized greenhouse was staged by Mr. Reeves. Mr. John Chambers coming in a good second. Mr. Jos. Graham of the Asylum took first for some very large well grown clematis.

Specimen flowering plants were conspicuous by their scarcity. This is not right; there is a great want of flowering stuff at the shows held here lately; the foliage plants are all that can be desired but people want to see more flowers. A very fine plant of *Stephanotis* (shown by Mr. Cotterill), some *Allamandas*, *Swainsonas*, *Plumbago*, *Begonias*, *Cannas* and a few orchids, comprised nearly all the flowering plants shown. Would Mr. Taplin give us a list of good flowering greenhouse plants and shrubs (outside of orchids) to grow for exhibition purposes.

Cut flowers and designs made a gorgeous display. Mr. Gilchrist's hybrid gladioli, especially the *foribunda Sandersi* lot, were most interesting and contained many varieties well worth perpetuating. One of the prettiest and most distinct I must try and describe: Lower petal white tipped with crimson, the other petals

flashed with bright scarlet on an indescribable sort of dull crimson purple ground. Another was a delicate Mermet pink, the lower petal slightly streaked. Mr. G. says that most of these hybrids are better than his named sorts and he grows all the best and latest. Dahlias shown by Messrs. Grainger Bros. were very fine, away ahead of other competitors. Verbenas, zinnias, petunias, marigolds, Phlox Drummondii, herbaceous phlox, asters, etc., were also in full force and blazing colors.

In funeral designs Mr. C. Arnold was easily first with a column of ivy leaves fixed up with white flowers. There was a good showing in this class, Messrs. Cotterill, Martin, Laing, Grainger Bros., competing closely against each other. That horrible monotony, the conical table bouquet as big as a haystack, of course turned up again; the section should be left out another year. E.

Chicago.

The meeting held at the Sherman House on the 14th inst. to organize a florists' exchange, or wholesale market, in this city was quite largely attended and the matter was vigorously discussed from all standpoints. Finally a vote was taken on a motion that such an exchange be established, leaving details to be arranged afterward, and there was no dissenting vote. Those willing to take stock in such an enterprise, with a capital stock of \$10,000, shares at \$10 each, were invited to step forward and affix their signatures to a memorandum to that effect, and after a motion that no one person be permitted to take more than ten shares had prevailed, several hundred shares were signed for. After all had had an opportunity to come in those who did not care to take stock were asked to retire and the meeting proceeded. A committee of three was appointed to make application for license to open regular books of subscription to stock, and the title "Chicago Florists' Exchange" was decided upon. After some further discussion the meeting adjourned to meet again at same place (Sherman House Club Room) Saturday, Sept. 24, at 11 a. m.

The past week has witnessed a marked improvement in the cut flower trade; out door stuff is practically at an end, excepting the double sunflowers, and prices are stiffening. Roses show an advance of about \$1.00 a 100 over last week's prices, and the flowers are excellent. Carnations are scarce, and likely to remain so. Japanese lilies, auratum, rubrum and album are growing scarce, especially the first named, which is the favorite. Single violets are the only sort quoted, and their price is good.

The first chrysanthemums came in last week, being about two weeks earlier than last year. White varieties only are seen at present; they are not first class, being greenish and brittle, but the price is fair. In about two weeks they will be better in quality as well as increased in quantity.

There is enough smilax to meet the demand, but no oversupply, however, the extensive use of hardy ferns prevents it from becoming scarce. The native evergreen ferns are used far more extensively here than in eastern cities, largely taking the place of smilax in decorating. There is no lily of the valley in the market; this is not to be found all the year round in the market here. A few sweet peas are still in the market; they are fairly good. Dahlias come in in small quantities, but they are growing poor; this has been a bad season for them

all through. Gladiolus are very limited in quantity and very poor in quality; still they sell. Among roses Perles, Albany and La France are first class; Beauty is improving, and also Mermet, but the last named is not yet so good as it might be. Brides and Gontiers are excellent. The carnations, in addition to being scarce, are generally poor in quality.

Boston.

The past week has been a very satisfactory one to local florists. Trade is reported as greatly improved all along the line. The weather has been sunny but cool, just right to produce good roses. Asters are getting quite scarce and are advanced in price in consequence, and carnations are already up to winter figures.

W. H. Elliott, the "Asparagus King," is building large additions to his asparagus house. Judging from the height of the new structure, he will be able to supply strings of all lengths up to a quarter of a mile, more or less.

At the recent exhibition of the Massachusetts Horticultural Society a first class certificate of merit was awarded to Siebrecht & Wadley, of New York, for a collection of rare plants.

Saturday, September 17, was aster day at Horticultural Hall. George Hollis, as usual, took first prize for hardy perennial asters. One seedling of a beautiful amethyst color with very large flowers was exceedingly handsome.

Baltimore.

Club met Monday night, President Fraser in the chair. Three new members were elected and two proposed. One associate member. Secretary Bauer is home again and in fine health and spirits. Mr. Moss added to the already numerous special premiums, by offering \$25 for the best essay on flowers and their influence on mankind; competition limited to school children of Maryland; and another of \$10 for the best collection of six plants grown by an amateur having no glass. The librarian called the attention of the club to the cost of "Paul's Rose Garden", the net cost of the book being \$5.16, which the cost of importing increased to a total of \$9.02. Some rather pronounced ideas of political economy were ventilated after this.

Several questions in the box were evidently asked that Secretary Bauer might answer them, as for example "What is the condition of horticulture in Europe as compared with America?" "Is the lager of Germany better than our own?" "How are the girls in Germany?" etc.; but he put them off till next meeting night, when he promised to answer at length.

"Cause of scale on roses, and how to prevent it?" brought out quite a discussion, and opened up the question of sickly plants being more subject to insects than healthy ones. The general opinion seemed to be that it was a question of condition, the condition that was most favorable to the plant frequently being most unfavorable to the insect and vice versa. This year owing to the long drought has been extraordinarily favorable to red spider, and they have seldom been so plentiful, while the very condition that induced this checked the plants, hence red spider and sickly plants. Mr. Ekas gave as a remedy for scale soot water, which he said seemed to cut them up. "When to plant evergreens?" was the next question. Mr. Moss said "In May." "Is double-thick glass the least expensive

in the long run?" President Fraser thought decidedly so. "Best heliotrope for winter?" Secretary Bauer said "Lizzie Cook." "Is a lemon plant from cutting as good as a budded one?" Secretary Bauer said they made a neater and more compact plant though very slow in growing. "Is it too late to pinch back 'mums'?" Mr. Halliday thought it was. "What will be the effect of cholera quarantine on Dutch bulbs?" President Fraser thought probably very serious. Others thought the heat or sulphur could scarcely reach the bulk of the cargo. "How about immortelles?" Secretary Bauer thought the process could scarcely injure them or any dry material though the effect on bulbs or plants might be serious.

Business continues much the same. White dahlias are plentiful at 50 cents per 100. The markets and country are full of golden rod. A drenching rain Tuesday night put a much needed end to the drought, and vegetation seems to have taken a fresh lease of life. MACK.

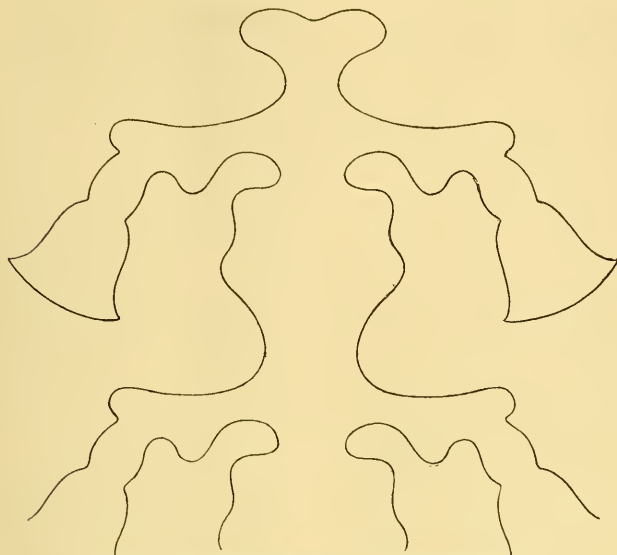
Worcester, Mass.

The vacationists are coming back thick and fast, nearly every train bringing in men, women and children, who look as though they had had a very jolly summer, but who are glad to get home again. Trade is a trifle livelier of course, but nothing to boast of as yet. The store windows are looking very gay just now, decorated with huge bunches of asters, helianthus and gladioli.

Mermets, Brides, Perles and La France of very good quality are coming in in good quantity, and carnations are very plentiful and of good size. Lange is cutting some very fine American Beauties and some good Harrisii.

The twenty-ninth annual exhibition of the New England Agricultural Society, in connection with the seventy-fifth annual exhibition of the Worcester Agricultural Society, opened August 30 for a four days' show. The floricultural display was very good indeed, considering the severe storms we have experienced the last week all over New England. Our genial friend H. B. Watts deserves great praise for his very tasteful arrangement of the different exhibits, getting remarkably good results, especially in his blending of colors.

The veteran dahlia grower, W. H. Tarbox of Crompton, R. I., was on hand with a splendid collection of double dahlias, all English importations; especially noticeable in his collection were Mrs. Gladstone, a delicate blush, Pioneer, a very dark maroon, and James O'Brien, a deep cherry. The stands of asters filling an entire side of the hall were a noteworthy feature of the show and attracted a great deal of attention; the opposite side was banked with perennial phlox, which also made a rich mass of color. C. A. Keyes showed the best floral design, a ship, cutter rigged, measuring six and one-half feet over all; it was constructed mostly of asters, the hull of red, with a water line of blue, and the sails of white mignon asters. The cabin was built of Perles, with a roof of Meteor, and the floors and decks of white hydrangea; it made a handsome show and was exceedingly well proportioned. Two handsome fruit and flower combination designs were rather a novelty and the display of best arranged vases made a handsome sight. Several good collections of palms and ferns filled one end of the hall. F. H. Wesson's display was composed of very noble specimens, among which were two grand Araucaria excelsa, that at-



DESIGN FOR THE TULIP BORDER AT THE WORLD'S FAIR.

tracted much notice. The named gladioli were very fine indeed and occupied one table, nearly the length of the hall. H. B. Watts had a splendid display; he showed 38 magnificent varieties that would have been hard to beat anywhere. The competition was very close in nearly all of the different classes and kept H. F. A. Lange, the judge, puzzled for quite a little while. S.

Pittsfield, Mass.

The Berkshire Agricultural Society, said to be the oldest agricultural society in the world, held its annual show and fair at Pittsfield on September 13, 14, 15, 16.

Through the efforts of Col. Walter Cutting, who is president of the society, Mr. H. F. Lucas and a number of the florists and private gardeners of this section, special attention was paid this year to the horticultural department and they were rewarded with a display far ahead of anything ever before accomplished here.

The grounds occupy an elevated location whence a magnificent view of the Berkshire hills and valleys is obtained, and on the most sightly spot was erected a large tent which was devoted exclusively to the horticultural display. Outside the tent the usual accompaniments of a county fair were to be seen; merry-go-rounds, fairs, agricultural implements, cattle, horse fanciers, pop corn, country lasses, tidies, bed quilts, poultry and pigs; but inside the charmed circle, horticulture alone held sway, and the display put up by the Lenox and Pittsfield gardeners would compare favorably in many respects with that of some of our well known horticultural societies. The collection of stove and greenhouse plants was especially good.

From Col. Cutting, Mr. A. P. Meredith gardener, came a very large exhibit including stove plants and ferns, French cannas and several well bloomed specimens of *Dendrobium formosum* giganteum.

The collection of stove and greenhouse plants from C. W. Knight, gardener to Mr. Chas. Lanier, was also a magnificent group, among which were very large specimens of *Chamaerops humilis*, *Chamaedorea Sartorii*, *Kentia Belmoreana*, etc.

From Mrs. Marshall Crane came a splendid *Phoenix dactylifera*; from Theo. L. Pomeroy fine agaves; from Mrs. Wm. Pollock, ficuses, etc., and from John White a general collection of palms and ferns. The display by E. Dolby, gardener to Zenas Crane was notable for well colored crotons and other ornamental foliaged plants and elegant specimen ferns, the best of which was a perfect plant of *Adiantum Williamsii*. Pitcher & Manda of Short Hills, N. J. also contributed a large general collection of stove and greenhouse plants, among which were a finely colored *Ananassa sativa* var. and *Encholirion Saundersii* a scarce bromeliad.

All the groups were arranged with great taste. A collection of garden vegetables from Mr. Meredith was declared by an experienced judge to be the best he had ever seen in America.

St. Louis.

The weather is delightful, and an inch of rain has brightened up vegetation. *Chrysanthemums* are doing finely. Mr. Meyer is growing a fine lot to single flowers. Some of our growers are troubled by a small larva, probably of some geometrid, which eats out the terminal buds before the formation of the flower bud. Hand picking has been the remedy thus far. White hellebore would probably kill the fellow, if thoroughly applied. The exhibition committee have let the contract for printing 10,000 copies of the premium list for the coming chrysanthemum show. There will be no advs. in it.

Mr. Waldhart is making some improvements on his plant, among them being a new eleven section boiler. He has a lot of *Cereus grandiflorus* which he grows for

pharmaceutical purposes. He says it pays well for the space occupied.

Mr. Julius Koenig is rebuilding one of his houses and has put in a new boiler.

One of the students at the Botanical Garden, while washing mealy bugs from *Dieffenbachia Bausei*, found that his hands were rapidly swelling. The joints of his fingers grew into great balls. The swelling caused no pain and disappeared as rapidly as it came, being gone in a few hours. This plant is known as "dumb cane." It should never be put in the mouth. A small portion of any part of the plant, if put into the mouth will cause the tongue to swell up and protrude, causing loss of speech for a considerable time.

Mr. Webster has an order for a wedding decoration of *helianthus*.

J. C. DUFFEY.

Tulip Border at the World's Fair.

The accompanying illustration shows a section of the tulip bed in front of the Horticultural building at the World's Fair. It will cover a large space, being cut out in the turf, and will make a gorgeous show of color in the early spring. The leading colors will be used in masses, always preferable to a mixed border. The bulb borders will be the attraction shortly before the great pansy display.

News Notes.

MEXICO, MO.—Joseph Gelvenis building a new house 64x10.

LA CRESCENTA, CAL.—Mr. E. Demmler, the florist, died recently.

FOND DU LAC, WIS.—E. Haentze is building two new houses 18x76 each.

SALT LAKE CITY, UTAH.—Thomas E. Gregory, foreman for John Reading, died September 13.

TERRE HAUTE, IND.—The wife of Mr. W. Dunkel, foreman at Mr. J. G. Heinel's, died August 25, aged 33 years.

DELAWARE, O.—E. Fryer has sold his business to Mrs. Alice Newell Baker, and has removed to Portsmouth, N. H.

UTICA, N. Y.—Preparations are being made by the Utica florists for a large exhibition to be held early in November.

DENVER, COLO.—The annual exhibition of the Colorado State Hort. Society will be held in this city September 28 to 30.

MUNCIE, IND.—Ed. Kendall has built two new houses this summer, one for roses and the other for violets and carnations. Trade is increasing here.

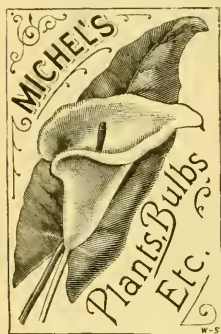
DE SOTO, MO.—Mr. J. W. Butcher had the misfortune to have his left leg badly crushed August 15. He is doing very well under the circumstances and will be around again before long.

MUNCIE, IND.—J. C. Carnes has built a new house for chrysanthemums. He now has three houses, all in good shape. He reports that the town is having a boom and that trade is excellent.

NEW BRITAIN, CONN.—The exhibition of the New Britain Horticultural Society on September 6, was eminently successful, and was well attended, the rooms at times being crowded to their utmost capacity. The tuberous begonias and aquatic plants were especially admired.

THE Society of Indiana Florists has issued a revised advance premium list for its sixth annual chrysanthemum show, to be held at Indianapolis, November 15 to 19. The revised list includes 23 special prizes, their aggregate value being nearly \$500. This makes a valuable addition to their list of prizes.

WE HAVE RECEIVED from Mr. C. H. Joosten, New York, a sample of his new magazine bellows for distributing insect powders. It seems admirably adapted to its purpose and a decided advance upon previous machines of the kind.



Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

✻ BARGAINS. ✻

STEVEA, from 3½-inch pots.....\$ 4.00
DOUBLE SWEET ALLYSUM, from 2¼-inch pots..... 2.00
MUMS, from 2¼-inch pots..... 2.25
Large field-grown plants..... 10.00
Geo. W. Childs, W. A. Manda, Roslyn, Mrs. E. D. Adams, from 6-inch pots.....35c each
CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

CYCLAMEN PERSICUM GIGANTEUM

3-inch pots, showing bud, \$8.00 per 100.

CARNATIONS. Field grown.

LIZZIE MCGOWAN, MRS. FISHER, PORTIA J. J. HARRISON, and others. 1 price \$5 per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

CARNATIONS. A few of the lowlands in the Boston market: Portia, Tidal Wave, Aurora, Daybreak, Silver Spray, extra large field grown plants and healthy at lowest prices.

H. L. CAMERON, Florist, North Cambridge, Mass.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

AURORA

AND OTHER

Carnation Plants

FROM THE FIELD.

Send for price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

10,000 CARNATIONS.

Per 100.
Garfield, Hinz's..... \$6.00, \$7.00 and \$ 8.00
E. S. B. Albany, La France, Mermut and Saffron, from 3-inch pots..... 6.00
Albany, La France and Wootton, from 2½-inch pots..... 3.00
Bride, Mermut, Saffron and Bon Silver, 3-inch pots..... 2.50
Asparagus Tennisinus, 3½-inch pots..... 8.00
Dracena Indivia 3½-inch pots..... \$1.00 per doz. 8.00
Fern Pteris Serrulata, 3½-inch pots..... 8.00
" " 2-inch pots. 12c a doz. 4.00
Grevillea Robusta, 15 to 18 in. high. \$2.00 a doz. 15.00
Pandanus Utilis, 4-inch pots, strong. \$5.00 per doz.

NATHAN SMITH & SON,
Adrian, Mich.

5,000 CARNATION PLANTS

For Sale.

MRS. FISHER, CENTURY,
SILVER SPRAY, TIDAL WAVE,
HINZE'S WHITE, GOLDEN GATE.
Write for prices.

PAUL F. LAU & CO., River Grove, Ill.

CARNATIONS,
FIELD GROWN.

GOLDEN & TRIUMPH,

and other varieties.
Send for list with prices.

E. T. LOMBARD, Wayland, Mass.

CARNATIONS

Strong plants, \$8.00 per 100.

Grace Wilder, Tidal Wave, Silver Spray, etc.
BOUVARDIA PRINCE OF CLEVELAND, Davidsonson, Pres. Garfield, Bridal Bouquet, \$5.00 per 100.
PRIMROSES, 2½-inch pots, \$4.00 per 100.

WM. A. BOCK, North Cambridge, Mass.
Mention American Florist.

CARNATIONS

Field grown plants, \$6 & \$7 per 100.

GRACE WILDER, SILVER SPRAY, HECTOR, MRS. FISHER, ANNA WEBB, HINZE'S WHITE, ETC.

GEO. E. BUXTON, Nashua, N. H.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to hook orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y.

FIELD GROWN
CARNATIONS
FOR SALE.

JAMES F. REID,
East Downtington, Pa.

FIELD GROWN CARNATIONS.

Florists desiring Carnations of the leading varieties at a low figure will do well to communicate with
FRED L. VOSB,
Beacon Side Nurseries, Cumberland Hill, R. I.

CARNATIONS. VIOLETS.

20,000 fine, stocky, field grown plants. Per 100.
ORANGE BLOSSOM..... \$10.00
MAY FLOWER, fine fancy..... 7 00
SNOW BIRD, white..... 5 00
WHITE WINGS..... 5 00
WEST END, pink..... 5 00
TIDAL WAVE..... 6 00
GRACE WILDER..... 6 00
HINZE'S WHITE, extra fine stock..... 5 00
LIZZIE MCGOWAN..... 6 00
MARIE LOUISE VIOLETS..... 8 00

The above all fine healthy plants.

Address **E. B. JENNINGS,**
Lock Box 254, SOUTHPORT, CONN.
CARNATION, VIOLET AND PANSY GROWER.

CARNATIONS

30,000 field grown plants. Stock fine, healthy, bushy plants.

Per 100.
Hinz's White..... 5.00
Orange Blossom..... 10.00
Snow Bird..... 6.00
Lizzie McGowan..... 6.00
Mayflower..... 6.00
White Wines..... 5.00
Fine strain of Pansies, \$8.00 per 100. Extra fine plants, free from disease.

Address **GEO. B. WHITEHEAD,**
Lock Box 116, GREEN'S FARMS, CONN.

NANCY HANKS

beats them all, both

HORSES AND CARNATIONS.

Shade of the popular Grace Wilder but of stronger growth. Field grown plants of these and many break; also 35 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

Extra Fine, Strong, Field Grown CARNATION PLANTS.

HINZE'S WHITE, PORTIA,
FRED CREIGHTON, GRACE WILDER,
LIZZIE MCGOWAN, W. F. DREER.
Send for prices to

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.

SURPLUS STOCK.

5 000 English lilies, from 3 in. pots, 24 inches high, \$1.50 per 100.
5,000 English lilies, from 4 in. pots, 24 inches high, \$5.00 per 100.
500 Bouvardia Davidsonson and Alfred Neuner, from 3-inch pots, \$5.00 per 100.
500 Begonia Rex and Silver Queen, nice salable plants, from 4-inch pots, \$5.00 per 100.
1 000 Acorus variegata, strong, 3-in. pots, \$8 per 100.
500 Strong, healthy Carnation Peerless, 50 per 100.
A number of specimen plants of Pandanus utilis, Dion edule, Sealthoria elegans, Arcos, etc.
Prices and sizes given on application.

JOHN RECK, BRIDGEPORT, CONN.
Mention American Florist.

2 LARGE PANDANUS, 4 feet.

1 LARGE FIGUS, 7 feet.

1 LARGE CYCAS PALM, about 6 feet.

1 LARGE DRACENAS, 6 feet.

2 LARGE YUCCAS.

A number of large ferns.

MRS. J. F. STUDEBAKER,
SOUTH BEND, IND.

PEONIES CHEAP.

Peonies thoroughly ripe and ready to ship. The fall is the best time to divide and plant.

WE HAVE BEST STOCK IN UNITED STATES sent in your orders, we will ship you by freight. Fine double stock, all colors you may need.

Large clumps that will make 6 to 10 divisions, at \$25 per 100. Cash to accompany order.

FOREST GLEN FLORAL CO.,
FOREST GLEN, ILL.

WATER LILIES.

SPECIAL TRADE LIST OF PLANTS, DORMANT TUBERS AND SEED FREE ON APPLICATION.

WM. TRICKER, Dongan Hills, S. I., N. Y.

Forcing Roses Cheap

Mme. Pierre Guillot, Waban, Am. Beauty, Perles, Duchess of Albany, La France, Niphetos, in 2, 3 and 4-inch. Gontier, Mme. Hoste, Meteor, C. Mermet, Bride, Bon Silene 2-in.

PRICES GIVEN ON APPLICATION.

A few fine Hybrids and Everbloomers left

A few thousand Thos. Hogg, Hortensis, Hortensis var. and paniculata grandiflora Hydrangeas, in 2½-inch pots; are in prime order to report into 4-inch pots. Price \$5.00 per 100; \$40.00 per 1000.

Primulas, single, 2-in. \$6, 3-in. \$8 per 100. We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

Mention American Florist.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet..... Per 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00

MRS. FISHER..... 7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,

in too leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

ROSES.

PERLE, 2½-inch, fine..... Per 100 \$ 5.00

SUNSET, 2½-inch, fine..... 5.00

C. SOUPERT, 2½-inch, fine..... 5.00

MME. P. GUILLOT, 2½-in., fine..... 5.00

AM. BEAUTY, 3½-inch..... 14.00

J. C. VAUGHAN,

P. O. Box 688.

CHICAGO.

THE

NEW ROSE

BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

SMILAX PLANTS

in 2-inch pots, \$2.00 per hundred.

HENRY MUNDT, OAK PARK, ILL.

ROSES FOR BEDDING.

We have some extra fine stock of Roses for bedding purposes.

	3-inch	4-inch		3-inch	4-inch
NIPHETOS.....	\$7.00	\$10.00	DUCHESS OF ALBANY.....	\$7.00	\$10.00
PAPA GONTIER.....	7.00	10.00	DUCHESS OF EDINBURGH..	7.00	10.00
PERLES.....	7.00	10.00	MERMETS.....	7.00	10.00
WOOTTONS.....	8.00	12.00	BRIDES.....	7.00	10.00
LA FRANCE.....	7.00	10.00			

All grown from two-eyed cuttings. Extra fine, healthy stock.

We still have a large stock of 3 and 4-inch Roses. We also have a fine lot of Papa Gontier in 3-inch pots, at \$5.00 per 100. Direct all orders to

FOREST GLEN FLORAL COMPANY,
Forest Glen, Cook Co., Ill.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

20,000 CARNATION PLANTS.

We offer fine FIELD GROWN PLANTS of the following varieties:

GRACE WILDER.....	LAMBTON.....	HINZE'S WHITE.....	PORTIA.....
PRIDE OF KENNET.....	MR. CARNegie.....	MRS. CARNegie.....	ROSALIND.....
MRS. F. MANGOLD.....	HONDALE.....	WM. SWAYNE.....	

1 Price, \$6.00 per 100; \$50.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

Roses.

MERMETS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN AMI, MME. CUSIN, WABAN, BON SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.

From 3-inch pots, \$8.00 per 100; \$75.00 per 1000.
2½-in. pots, \$6.00 per 100; \$45.00 per 1000.

CARNATIONS.

Strong, healthy, field grown plants.

Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Portia, Mrs. Fisher, Hector, Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$70.00 per 1000.

2nd size, \$6.00 per 100; \$45.00 per 1000.

PURITAN, best new white.

GOLDEN TRIUMPH, Yellow.

AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.

Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. ROSE.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is a very strong, healthy grower, with beautiful foliage, nearly every shoot producing a flowered long erect stems, of very whiteness and beautiful shape. I have a house full of them which is admired by every florist. My stock comes direct from the originator.

Price of plants in 3-inch pots,

\$5.00 per dozen.

Price on larger quantities on application. Cash with the order.

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS..... \$30.00 per 1000
HYBRIDS..... 47.00 per 1000

Healthy plants in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,

STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants, extra choice 20s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 11s, 1 yr. " "
Cash with order. Send via Bremen Loyds.

Always mention the AMERICAN FLORIST when writing to advertisers.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. OUWERKERK,

P. O. Box 1845.

NEW YORK.

SAM'L HENSHAW, Landscape Gardener

West Brighton, Staten Island, N. Y.

New grounds laid out and old ones remodeled.

FOR SALE.

A fine lot of specimen Palms, Ficus, Euphorbia, Pandanus, Aspidistras, Dracenas, etc. If you need a few nice specimens write stating what.

JOSEPH BANCROFT, Cedar Falls, Ia.

Russian or Cape Cod Violets.

The iron-clad, hardy kind; 1000 very strong clumps, \$10.00 per 100 net.

G. F. CHANDLER,
South Lancaster, Mass.

Piping.

In reply to William Horlacher's query in the FLORIST for August 11, I have used 2-inch pipe in connection with 3-inch with good success. I have better results with two 2-inch pipes as flow under the ridge pole, and seven 1½-inch pipes on each side as returns. Two pipes on each side have valves, to be turned off in warmer nights. Less coal is required to furnish heat with this system. I wish I had all my houses piped this way.

Norwich, Conn. G. GEDULDIG.

Bulb Growing in the South.

Mrs. J. S. R. Thomson writes as regarding her former communication on this subject, that she did not wish to convey the impression that bulbs might be grown for the flowers alone, to compete with those who force them under glass. Attention was sought for the possibilities of bulb growing itself, as a Southern industry, it being asserted by many interested in the subject that both soil and climate give opportunity for excelling foreign growers.

The Rose Worm.

I would suggest to Messrs. Reinberg Bros. that they try syringing with tobacco juice. I think the worm is the same that infested roses on a place in England when I was there, and the remedy noted is the one we used then.

THOS. KING.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven characters each insertion). Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In some western city, by a man of great experience; a position as foreman or manager in a commercial florist establishment; high references. S. care American Florist.

SITUATION WANTED—By a young man in a commercial or private place; thoroughly understands greenhouse work; 8 years' experience in good English gardens. A. E. WILLIAMS, Rochdale, Mass.

SITUATION WANTED—By single young man in second employer; 22 years' experience in private and commercial places. First-class references from last employer. CHAS. R. COOK, Fishkill-on-Hudson, N. Y.

SITUATION WANTED—As foreman or manager. Roses, carnations, violets, bulbs, decorative and bedding plants; 22 years' experience; single. Good references. State wages. D. N. 121 N. Clark St., Chicago.

SITUATION WANTED—By a first-class florist and gardener, sober and reliable; commercial or private places; 20 years' experience in Europe and United States; best of references. Address L. F. care American Florist.

SITUATION WANTED—By young man, aged 25; 7 years' experience, as foreman or first assistant—commercial preferred. Best references. Address W. W. PLYMAN, care H. Olson, 67 Laight St., New York City.

SITUATION WANTED—By a thorough, practical gardener and florist; fully competent in all branches; care private or commercial place. Roses, carnations a specialty. Best references. Address W. G. 24½ Union St., Elizabeth, N. J.

SITUATION WANTED—By a young man, single, age 27, on a commercial place; thoroughly understands greenhouse work; strictly sober, honest and studious to the business. Philadelphia preferred. Address COMPETENCY, care American Florist.

SITUATION WANTED—By young man, 27, single, sober and reliable; 10 years' experience in growing cut flowers and general retail stock. Worked in C. and A. and western cities; able to take charge of commercial place. GARDNER, 355 Seminary Ave., Chicago.

SITUATION WANTED—As gardener, head or assistant; single, aged 45 years, thoroughly experienced in all branches; first-class testimonials from some of the leading places in Europe and America. No one-house places need apply. Address K. E. W. care American Florist, Chicago.

WANTED—A cheap venting apparatus and some pipe. L. L. THOMPSON, Ansonia, Conn.

WANTED—Second-hand hot water boiler for heating small greenhouse. A. H. MURKIN, Reedburg, Wis.

WANTED—The address of Louis Decher, by his friend J. M. S. M. 340 Washington Ave., Chicago.

WANTED—An experienced German lady florist, as manager of store. Address A. H. care American Florist, Chicago.

WANTED—Gardener who understands heating with dry fuel, and can grow a general stock for retail store. Address 428 Spruce St., Scranton, Pa.

WANTED—Man who understands growing ferns, orchids and palms. Must be free from drink. Answer: stating wages desired. Address R. J. MENDELHALL, Minneapolis, Minn.

WANTED—A young man accustomed to greenhouse work; must be strictly sober, and studious to business. Address J. F. GIBBS, Woodville, Allegheny Co., Pa.

WANTED—Gardener—Good, steady, sober, competent, willing to work hard, wanted to come at once. Let me hear from such a man needing a place at once. W. H. SANFORD, Thomasville, Ga.

WANTED—In Sacramento, California, a young single man who is a thorough, competent florist and greenhouse man; must be absolutely reliable. Wages \$40.00 and found, with increase after first six months if satisfactory. Address BELL CONSERVATORY CO., Sacramento, California.

WANTED—At once, a good florist, a grower of flowers and cut flowers, and who is a good designer and decorator in cut flower work. No other need apply. State age, experience and wages wanted. Single man preferred. Address D. R. Box 787, Salt Lake City, Utah.

FOR SALE—One Wethered boiler No. 6; one Hitchings boiler No. 15; 150 feet of 4-inch pipe at half price. G. WALDBAUER, Saginaw, Mich.

FOR SALE—Half interest in a good paying business. Greenhouses all new; 10,000 feet of glass, in a city of 50,000. For particulars write to care American Florist, Chicago.

FOR SALE—Three No. 6 Smith & Lynch boilers in good condition, capable of heating 1,000 feet of pipe. Address M. R. CUSHING, Cohasset, Mass.

FOR SALE OR LEASE—Old established florist plant business; 7 greenhouses, inside Chicago limits, city water, good location. A bargain. Address H. care American Florist, Chicago.

FOR SALE—A well established florist business, six greenhouses and full stock, on account of death; 10 years' lease on land; only 30 minutes from flower market. For further particulars inquire of MRS. GEO. LINKE, 529 Lathrop St., L. I. City, N. Y.

FOR SALE—All or part interest in an old established florist business in Chicago. Plant consists of 11 new houses; 30,000 square feet under glass. Have just rebuilt. Houses all filled with new stock; 5 acres of ground; retail store in city with good lease and location. Address G. H. care American Florist.

FOR SALE OR LEASE—Very rare chance for good party. I will sell, lease or let share my florist business on account of poor health; very desirable location; flowers sold on premises. Come and see for yourself. Possession at once. Business can be greatly increased. Address LOUIS R. FOX, Gloversville, N. Y.

FOR SALE—At a bargain, a well established florist business in a western city of 10,000 inhabitants; 5,500 feet of glass, well stocked; city water, electric lighted, steam heated, in good repair; trade mostly cut flower work, good paying trade. Must be sold on account of illness. Address A. B. C. care American Florist.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam, gravity 80 feet long just coming into bearing; recently built; 30 acres of land; abundance of fruit; large house containing 15 rooms, new barn; within miles of Philadelphia and one mile from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARSEN, Tonghkenham, Chester Co., Pa.

NOTICE.

Where is George Roggenkamp?

From Henderson, Ky.; 20 years old, dark built and brown eyes; has worked in greenhouses. Anyone knowing his whereabouts will please let it be known to his grieving father.

H. ROGGENKAMP, Henderson, Ky.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

GLADIOLI AND CANNAS

- Now is the time to order if you want to BE SURE of getting the best
- varieties in quantities desired. Place order now; delivery will be made at
- such time as you desire.

Descriptive price list on application.

Wisconsin Flower Exchange,
131 Mason St., MILWAUKEE, WIS.

JULES DE COCK, NURSERYMAN,
Ledeberg, Ghent, Belgium,

offers ARAUCARIAS, ASPIDISTRA, AZALEA INDICA, DRACENAS, PALMS LAURUS TINUS and NOBILIS, with crowns or pyramids, SPIRÆA JAPONICA, and AUR. RET., all by the thousand. Packing free for cash with order.
Price list on application

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets, use our FLORISTS' GREEN THREADS.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
— WRITE FOR SAMPLES AND PRICES. —

Azalea Indica.

Tremendous stock of large plants specially grown in pots for forcing and exportation.

For prices and particulars, apply to
EDW. PYNAERT, Nurseryman,
GHENT, BELGIUM.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazarand Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada. C. C. ABEL & CO., P. O. Box 920, New York.

WANTED.
LANDSCAPE GARDENER

To manage our landscape and planting department. A permanent position and a liberal salary. State experience and salary required.

J. T. LOVETT CO.,
Little Silver, N. J.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.

THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

Mention American Florist.

KENNICOTT BROS., WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET,

CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL, Wholesale Florist and Dealer in FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.

Store Closes Nights 9 P. M.; Sunday 2 P. M.
Mention American Florist

McKELLAR & SPERRY, WHOLESALE Cut Flowers & Florists' Supplies

128 & 129 Michigan Avenue,

Near Madison St., CHICAGO.

Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON, —* Wholesale FLORIST,

66 WABASH AVENUE,

Telephone 4786, CHICAGO, ILL.

DAN'L B. LONG, COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application.

C. A. KUEHN, (Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON, (Late of ELLISON & KUEHN), WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to

J. HORACE MCFARLAND, Harrisburg, Pa.

Wholesale Market.

Cut Flowers.

NEW YORK, Sept. 20.	
Roses, Perles, Sunsets, Goutiers.....	1.00@ 2.00
" Normans, Brides, Niphetos.....	2.00@ 3.00
" Watteville's, Hostes, Bennetts.....	2.00@ 3.00
" La France, Albany.....	2.00@ 3.00
" Beauty.....	2.00@ 3.00
Carnations.....	1.00@ 1.50
Valley.....	4.00@ 6.00
Adiantums.....	1.00
Smilax.....	10.00
Asparagus.....	50.00

BOSTON, Sept. 20.	
Roses, Niphetos, Goutier.....	2.00@ 3.00
" Bride, Mermel, Wootton.....	3.00@ 4.00
" La France, Netcor.....	4.00@ 5.00
" Perle, Sunset.....	3.00@ 4.00
" Beauty.....	15.00@ 25.00
Carnations.....	1.50@ 2.50
Asters.....	1.00@ 1.50
Valley.....	5.00
Tuberose.....	.50@ .75
Glaudiolus.....	2.00@ 4.00
Hydrangeas.....	3.00@ 4.00
Japan Lilies (rubrum).....	2.00
" (album).....	1.00
Asparagus.....	50.00
Adiantum.....	1.00
Smilax.....	15.00

PHILADELPHIA, Sept. 20.	
Roses, La France, Albany, Bride.....	2.00@ 3.00
" Perle, Niphetos.....	2.00@ 3.00
" Marie Guillot.....	2.00
Valley.....	6.00
Sweet Pans.....	25@ .40
Glaudiolus.....	2.00@ 4.00
Tuberose.....	.50@ 1.00
Carnations.....	.25
Asters.....	.50@ 1.00
Adiantum.....	1.00
Smilax.....	15.00

CHICAGO, Sept. 20.	
Assorted roses.....	3.00@ 4.00
Am. Beauty.....	8.00@ 12.00
Carnations.....	1.00@ 1.25
Violets, single.....	.75
Chrysanthemums.....	2.00@ 3.00
Smilax.....	15.00
Asparagus.....	15.00
Glaudiolus.....	1.00@ 3.00

Peck & Sutherland,

Successors to WM. J. STEWART,

Cut Flowers & Florists' Supplies

WHOLESALE.

67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

SMITH, The Florist,

GROWER OF

Fine Roses & Other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

CUT SMILAX.

Summer prices, 15 cents per string. Special attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

HARDY CUT FERNS

MOSS (SPHAGNUM AND GREEN SHEET.

A. L. VESZTELYS, BOUQUET GREEN AND FESTOONING OF all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Place. BOSTON, MASS.

BURNS & RAYNOR,

49 West 28th Street,

NEW YORK,

WHOLESALE DEALERS IN
AND SHIPPERS OF

Choice Flowers.

WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,

WHOLESALE DEALERS IN

CUT FLOWERS

51 W. 30th St., NEW YORK.

FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St

JAMES HART, WHOLESALE FLORIST.

117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

H. L. SUNDERBRUCH, WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

THEO. ROEHR'S, WHOLESALE FLORIST,

111 WEST 30TH STREET,

NEW YORK CITY.

WHOLESALE FLORISTS



La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

Mention American Florist.

SAMUEL S. PENNOCK, Wholesale Florist

38 S. 16th Street, Philadelphia, Pa.

Re Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DOM, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wettersfield, Conn.

Quarantine Regulations at New York.

The following from the New York *Journal of Commerce*, dated September 7, 1892, may be of value to importers: "The laws under which the health officer acts in dealing with merchandise at quarantine are as follows: For the purpose of sanitary measures merchandise shall be arranged in three classes: 1. Merchandise to be submitted to an obligatory quarantine and to purification; 2. Merchandise subject to an optional quarantine, and 3. Merchandise exempt from quarantine. The first-class comprises clothing, personal baggage and dunnage rags, paper rags, hides, skins, feathers, hair and all other remains of animals, cotton, hemp and woolsens. The second class comprehends sugar, silks and linen and cattle. The third class comprehends all merchandise not enumerated in the two other classes. With existing quarantinable disease on board, or if there have been any such disease on board within ten days last preceding, merchandise of the first class shall be landed at the quarantine warehouse. Merchandise of the second class may be admitted to pratique immediately, or transferred to the warehouses, according to circumstances, at the option of the health officer, with due regard to the sanitary conditions of the port. Merchandise of the third class shall be declared free and admitted without unnecessary delay. That merchandise which is subject to quarantine and purification shall be submitted to such measures as the health officer shall judge necessary."

LATE REPORTS from Nebraska indicate a shortage of vine seeds.

THE FIRM of H. A. Dreer has been incorporated the past season.

FROSTS during the past week may have injured late corn and late potatoes.

WINTER SQUASH and pumpkin seeds are reported as less than one-half a crop in Nebraska.

VISITED Omaha the past week, F. W. Barteldes, S. F. Leonard, H. Earl with Burpee & Co., Fred Plant.

BOSTON bulb dealers report that so far they have had no trouble with their importations on account of quarantine.

MR. G. H. LEAHY is now associated with W. Atlee Burpee & Co., in a position similar to that recently held by him with the Dingee & Conard Co.

T. W. EMERSON & Co. of Boston, have given up their vegetable seed department, Mr. Hutchins who managed this part of the business having retired, and will continue their agricultural seed trade exclusively.

MR. JAMES F. M. FARQUHAR has returned from an extended trip of four months' duration, in which he visited Austria, France, Holland, Switzerland, Belgium, Italy and Great Britain. He reports the crop of hyacinths and other Dutch bulbs as of unusually fine quality this year.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILUM HARRISII AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS.

114 Chambers Street, NEW YORK.

Illustrated Catalogue on application.

ROMAN HYACINTHS.

We carry a good stock of these as well as all others.

	Per 100	Per 1000
White, 1st quality, 11 to 12 cm.	\$1.80	\$15.00
" select, 12 to 15 cm.	2.60	23.50
" XX, 13 to 15 cm.	3.00	27.50
Single Blue.....	2.00	17.50
Light Rosy.....	1.75	16.00
Dark Rosy.....	1.75	15.50
Single Yellow.....	4.00	35.00

WRITE FOR SPECIAL PRICES ON LARGER LOTS.

NEW YORK: J. C. VAUGHAN, CHICAGO: 12 Barclay Street. 146 & 148 W. Washington St.



Send for Catalogue of
**JAPAN BULBS, SEEDS,
AND SHRUBS.**
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.
FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,
3 COENITIES SLIP, NEW YORK

Freesia Refracta Alba.

Selected Bulbs, \$1.00 per 100; \$7.50 per 1000.

CHINESE NARCISSUS BULBS, per 100 \$6.50.

DUTCH BULBS ready this week.

W. D. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

BULBS FOR FLORISTS FORCING.



HARRISII LILIES.

ALSO LONGIFLORUM.

We have still a quantity at hand of both sorts, mostly large sizes. Also all sorts of DUTCH BULBS for immediate delivery, from our large bulb farms at Overveen, Bloemendale and Zantpoort.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Catalogue on application.

BULBS FOR FLORISTS.

A few carefully selected varieties still unsold.

FLORISTS' WANTS.

Parties wishing to sell, purchase or exchange any desirable stock of PLANTS, OR CUT FLOWERS should write us.

WISCONSIN FLOWER EXCHANGE,
131 Mason St., MILWAUKEE, WIS.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000.....72.50

50,000.....337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

LILUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,

56 N. 4th St., Philadelphia, Pa.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIAM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

• YOU WILL ALL WANT THE •

SNOW GREST DAISY

Now in the time to put them in for
Christmas blooming.

The most enterprising in the trade are taking
hold of it. The 25,000 nearly all gone. Don't
forget that we are headquarters and owners of the
ORIGINAL PLANT and have the largest stock in the
world and offer them now 12 for \$1.00. Sample
plant with bloom for 12 or 6 2c. stamps, post
paid; 100 for \$9.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy
Seed, and realize all that can be desired in the
Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/2-oz.
\$1.60; 1-oz. \$3.00; ounce \$5.00.

New Crop Mammoth Verbena Seed in fine mix-
ture; plenty of white; finest crimsons and richest
purples, with all the intermediate colors. In
packets of 100, seeds 60c; 5000 for \$2.25, while
they last.

Also the beautiful Sweet-Scented and novel
Dakota Primrose Ice King. 100 seeds 25c.
Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,
STATION E. NEW YORK.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARACUARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

TOBACCO STEMS.

Put up in bales of 200 lbs. at
\$1.50 per 100 lbs. Cash with
order. F. o. b. cars Chicago.

LAKE CITY FLORAL CO.,

48 Adams Street, CHICAGO.

Please mention the American Flo-
rist every time you write any of the
advertisers on this page.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's
crop of the choice Sweet Pea varieties, named and mixed, that
we grow. Please send for trade list.

MARIE LOUISE VIOLETS, strong runners, free from disease,
\$20.00 per 1000. Smilax Seed, per oz. 30 cents; per lb. \$3.00.
Lily of the Valley Buds, selected three year old crowns of the
true large flowered variety, from consignment due in Novem-
ber, ex-steamer wharf at New York, per case of 2,500, \$19.00.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

Adiantum Capillus Veneris.

The most profitable variety for the commercial florist; for
reasons why, see FLORIST issue Sept. 1st, page 119.
The extraordinary demand for this variety has made
it impossible for us in the past to fill all orders on time.

WE NOW have a fine lot in splendid condi-
tion, ready for immediate shipment.

PRICE, \$8.00 PER 100.

A. Cuneatum, 5-inch pots, splendid specimens, 50
cents each; \$5.00 per dozen.

JOHN IRVINE CO.,

• • • • Bay City, Mich.

Hoffman Nurseries.

We offer strong field grown plants of

	Per 100
Hinze's White Carnations.....	\$ 5.00
Marie Louise Violets.....	4.00
Bouvardia, from 4-inch pots, mostly	
Alfred Neuner, double white.....	8.00

We also offer a large stock of

Hardy Perennials, Roses, Ornamental Shrubs
and general nursery stock.

Send list of wants for prices and varieties.

E. M. & H. N. HOFFMAN,

Elmira, N. Y.

VIOLETS. 5,000 **MARIE LOUISE**, healthy
plants.

CARNATIONS. 1,000 of best varieties.

JACQS. 1,000 fine plants, 2 years old.

THOMAS STOCK,

NEW MINOT ST., DORCHESTER, MASS.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

Ficus Elastica.



Extra strong plants, 6-inch pots,
\$50.00 per hundred.

ANDORRA NURSERIES,

Wm Warner Harper, CHESTNUT HILL, PHILA., PA.
MANAGER.

CLEMATIS.

	Doz.	Hundred.
2 Year Choice Assortment.....	\$3.00	\$25.00
1. P. Roses. Choice named kinds....	2.00	15.00
Monthly.....	1.50	10.00
Daisy Snowflake, strong plants.....	.50	3.00
Pansy Plants, Cuties, Bugnots and		
Others by mail.....	.50	2.00

F. A. BALLER,
BLOOMINGTON, ILL.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be
ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConnellsville, O.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon
application.

Cincinnati.

We have had the finest kind of weather this week, but it did not increase the retail business very much. Outside of the floral decorations of one of our dry goods houses, which was done by B. P. Critchell & Co., very little was going on with the retailers, while the wholesalers had a better time of it than they had during any other week this summer. Asters are done for this season, carnations and smilax are still very scarce, while roses remain good and plentiful and are selling at \$3.

The society people have taken a firm hold upon the chrysanthemum show and are pushing it on to such an extent that it undoubtedly will be a grand success from a social as well as a financial standpoint.

Chillicothe must have felt quite lonesome last Wednesday, for every one of her florists were spending the day in Cincinnati.

Mr. H. L. Sunderbruch has been laid up by sickness for the past week.

I. W. Gardner, until recently in the florist business here, and who has long dabbled in politics, has been appointed deputy oil inspector of Ohio.

B. G. GILLET.

Butted Glass.

In response to the query in the FLORIST I would not advise anyone to butt glass. The water will run through and drop down inside and the glass always looks dirty. I have one side of a house on which the glass is butted, and I do not want any more of it, under any consideration. It is no good.

Westfield, N. J. W. B. WOODRUFF.

Fancy Caladiums.

Since we published the engravings of fancy caladiums that appeared in our issue of September 8 we have learned that the one occupying the center of the group on page 127 is named Triomphe de l'Exposition, and the one in the upper right hand corner of the group on page 129 is Albert Edward.

Do you want an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

CALLA *

NANA COMPACTA.

..... The California dwarf variety.
DRY BULBS, per 100, \$15.00.

J. C. VAUGHAN,
CHICAGO. NEW YORK.

TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

DECORATIVE PLANTS.

BEFORE placing your order for Fall Delivery,
Come and see our immense stock of

LATANIA BORBONICA,

KENTIA BELMOREANA,

RHAPIS FLABELLIFORMIS,

ADIANTUM FARLEYENSE,

PANDANUS VEITCHII,

COCOS WEDDELIANA,

ARECAS IN VARIETY,

KENTIA FORSTERIANA,

PANAX VICTORIE,

RHAPIS HUMILIS,

FICUS ELASTICA,

ARAUCARIAS,

And hundreds of other valuable plants in the best possible condition, which
will speak for themselves.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

PANSIES.

Pansies are all sold until the latter part of September; expect to have them then by the 100,000. Price, free delivery, 75 cts. per 100; \$3 per 500. You to pay express, \$5 per 1000.

CARNATIONS.

My Carnations are extra fine this season. When you think about Carnations, think of me. Write and see what I can do for you. List ready Oct. 1st.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell for cash, and freight prepaid in Yokohama, to every one who will favor him with an order. Catalogues on application.

The freight has to be paid in U. S. gold exchange; the goods are, however, paid for in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents
Mexican silver dollars in Yokohama, freight to
San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex.
" " 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 8-inch pot.
RHAPIS FLABELLIFORMIS, 25 cts. per shoot.

For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

The Cultivation of Mushrooms.

The following standard works will be sent
post free on receipt of price:

MUSHROOM CULTURE..... Robinson \$.50
MUSHROOMS—How to Grow Them, Falconer 1.35
MUSHROOMS FOR THE MILLION, 16 pages, Free.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers. 6
Philadelphia, Pa., U. S. A.

AUG. TOEFFAERT,

GHENT, BELGIUM.

Palms, Azalea Indica,

TUBEROUS BEGONIAS.

TRADE LIST ON APPLICATION.

PANSY PLANTS.

The Jennings strain of large flowering Fancy Pansies now ready. 300,000 sold in '91. Fine for winter blooming, and for spring sales there is no better in the market. Price by mail 60c. per 100, \$5.00 per 1000, \$20.00; any quantity you want up to December 15, plants any size wanted. Send in your order early, as there is a big demand for these Pansies. Seed of this strain 81 per trade packet of 3000 seeds, ounce \$6.00.

E. B. JENNINGS,

CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

PANSIES.

New crop of Vautier's Mammoth Pansy Seed now ready. For mammoth size, beauty and perfect form they rival anything heretofore offered. Colors are rich and varied; plants bushy and compact. The superb colors and immense size have placed Vautier's seed at the head. We guarantee this seed to be the finest ever offered. Small packet, 25c.; trade packet, \$1.00; 1/2 ounce, \$1.25; ounce, \$2.00.

H. O. FAUST & CO., Seedsmen,
64 and 66 N. Front Street, PHILADELPHIA, PA.

NEW AND RARE PLANTS,
ORCHIDS, ETC.

A large collection of House and Greenhouse Plants carefully grown at low rates.

ORCHIDS—A very extensive stock. East Indian, Mexican, Central South American, etc.
Hardy Perennials, Roses, Clematis, Paeonies, Phloxes, Japanese Iris, etc.

New and Standard Fruits: rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

BLOODINGTON (PHOENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FERTILE TREE SEEDLINGS. Free Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
Successors to GIBBY TITTLE & CO., BIRMINGHAM, ALA.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

I HAVE ABOUT

TEN (10,000) THOUSAND MARIE LOUISE VIOLET PLANTS,

STONG, HEALTHY CLUMPS STILL TO DISPOSE OF.

Address L. H. FOSTER, King Street, Dorchester, Mass.

CHEAP STOCK

Two-inch pot plants in prime condition at \$3.00 per 100.

5,000 *Latania Borbonica*.

2,000 *Allamanda Hendersonii*.

1,000 *Cladodendron Balfourii*.

1,000 *Cissus Discolor*.

5,000 Perennial *Phlox*, 10 best sorts.

5,000 Hardy Shrubs, 10 best sorts.

Below named variety of Palms, 2-inch pots, at \$5.00 per 100.

Corypha australis, *Phoenix canariensis*, *Areca rubra*, *Phoenix reclinata* and others,

also from 3-inch pots, at \$5.00 per 100.

Silver and Gold Ferns.

Adiantum Hendersonii.

Pteris Cretica, *albo lineata*, *A. formosum* and Sword Ferns, Apple Geraniums, 3-inch, at \$6.00 per 100.

Grand Duke *Jessamine*, 3-in. pot, \$6 per 100.

Tea and Hybrid *Roses*, 50,000 ready, 2-inch pots, \$35 to \$50 per 1000.

GENUINE KENTUCKY BLUE GRASS

SEED, extra clean, and fancy in quantity.

Special prices quoted. Give quantity.

Address for anything in the Florists' Line

Nanz & Neuner,

582 4th Avenue, LOUISVILLE, KY.

CYPRRESS GREENHOUSE MATERIAL

CLEAR

CYPRESS

SASH

BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77.

UPPER SANDUSKY, O.

Chinese Primulas.

Crimson, White, Blue, Etc. Canels, Carter's and Goyent Garden strains.

Extra strong, 2½-in. \$3.00 per 100.

100 POTS EUCHARIS,
3½ in. Each 10 cents.

PINK HYDRANGEAS,
3½-in., \$6.50 per 100; 4-in., each 7 cents;
4½ and 5-in., each 15 cents.

JOHN LAWRENCE, Harrisburg, Pa.

Mention American Florist.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below :

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$40.00 per 1000
TWO YEARS, 18x24 inches, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 " 70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

TUBEROUS BEGONIAS.

The most reliable quality, the largest tubers and the best strain, at very moderate rates, are those grown by

JOHN R. BOX,

Who has made a Specialty of Begonias for the last 15 years, and was for 10 years the "Co." in John Laing & Co. :

TUBERS of Singles and Doubles in mixed or separate colors.

SEED of Singles and Doubles in mixed or separate colors.

Special Wholesale Price List on application. Special Estimate for large orders by return mail. Every attention to careful shipment. And remember that the quality is a trifle better than you can buy elsewhere. You want the best, I believe. Don't delay with a trial order to

JOHN R. BOX, Begonia Grower, **CROYDON, ENGLAND.**



Fanny.

Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a Specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

Several
Smart ..
Florists

AND ABOUT ALL LIVE SEEDSMEN have begun already on '03 Catalogues. There is money and relief in working it up right now, and we've a sweet smile for all of our friends who want under cover EARLY. We're making better Catalogues now than ever, and you can't come at us too early or often. Write us NOW about what you want for 1893, or sooner. We are Printers and Electrotypers for Florists; we bind, rule, number, perforate, and cut round corners; we make Catalogues straight through, furnishing the brains and copy too, if you want them. We are at the Mt. Pleasant Printery, and you can't miss us in addressing

J. HORACE McFARLAND COMPANY,

HARRISBURG, PA.

ASTILBE JAPONICA VAR. GRANDIFLORA.

"THE PEER AMONG FORCING PLANTS."

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. "The latest blooming and most fragrant of its family."

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.)

THE READING NURSERY,

• JACOB W. MANNING, Proprietor. • **READING, MASS.**

Mention American Florist.

Autumn Shading.

At this time of the year, when all the stock from the open ground is removed in under glass, a little shade should be given to these plants for at least three or four days, in order to give them a good start. Now we often see florists white-washing their houses late in the fall and after a few weeks they have to wash it off, sometimes with much trouble. My idea of shading in the fall is to take a pail or tub, fill it about one-third with white clay and dissolve this with water. Take a brush or syringe and put it on the glass and it will give a nice shade. The first rain will wash it off again, and even if no rain should come it is only a little labor to take a hose and wash it off the glass after the plants have made new roots. This will hardly be any expense at all, only the labor to get it on the glass, which amounts to a very little.

Dayton, O. GUST. OBERMEYER.

Elmira, N. Y.

The horticultural display at the interstate fair held here recently was most creditable. A large new building was entirely devoted to plants and flowers, and it was away from the noise of machinery, which is too often an objectionable feature of such displays. Mr. Wm. Scott, of Buffalo, acted as judge, and expressed himself as very agreeably surprised at the excellence of the display. Mr. Scott was accompanied by J. H. Rehstock, "Andy" Anderson, J. F. Cowell and E. I. Mepsted from Buffalo. The party visited Grove P. Rawson's place and they were loud in their praise of the manner in which it is conducted. He has 50,000 feet of glass, and every inch is well taken care of. S. G.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

A FEW REMARKS ON THE SUBJECT OF CLEAR CYPRESS MATERIAL.

CLEAR CYPRESS has been proved by long experience to be the best wood for greenhouse construction.

WHEN BUILDING you want the best and only the best.

I HAVE BUILT GREENHOUSES FOR YEARS, but have advertised this branch of my business only three months past.

EXPERIENCE COUNTS, and I have shipped houses to all parts of the country from Maine to Texas.

CARRY A STOCK OF CYPRESS ON HAND AT ALL TIMES, and can furnish you with sash bars or ventilating sash of any size.

I DO NOT WANT THE EARTH, but am satisfied with a reasonable profit.

Write for Estimates and Prices.

Address

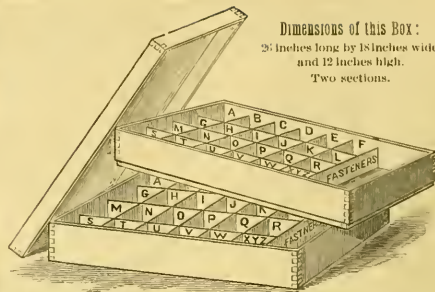
LYMAN FELHEIM,
Erie, Pa.

Mention American Florist.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.

Sold by Seedsmen.



Dimensions of this Box:

2 1/2 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1 1/2-in. and 2-in. 2.00 per 100. Patent
fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St.,
Treas. & Mgrs. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners who wish to exchange, can do so without additional cost by writing us.

AGENTS.

A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
E. Kauffman, Philadelphia, Pa.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Summers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
Marshuetz & Co., 25 N. 4th St., Phila., Pa.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. ONE HUNDRED different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.,
37 & 39 Murray Street, NEW YORK.

Mention American Florist.

H. M. HOOKER COMPANY, 57 and 59 W. Randolph Street, CHICAGO, NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.



THE EVANS CHALLENGE VENTILATING APPARATUS.

WITHOUT A RIVAL, EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE
THE FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb of roof.
- 5th. Give the thickness and width of rafters or sash bar.

For Florists, Nurserymen & Seedsmen

GEM STEEL GEM WIND ENGINE GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no hinged or free-jointed towers and practically no attention, yet is more durable than other Wind Motors that require all this and more unique in finish. The GEM TOWER combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Engine Company in existence, and who build the Halladay Standard Pumping and Geared Wind Mills, the Standard, Yale, and U. S. Solid Wheel Wind Mills, Pumps, Tanks, Horse Hay Tools, &c. No other company offers equal inducements. Send for Catalogue and Prices.
U. S. WIND ENGINE & PUMP CO.
BATAVIA, ILL., U. S. A.



BRANCH HOUSES: Omaha, Neb.; Kansas City, Mo.; St. Louis, Mo.; St. Paul, Minn.; Chicago, Ill.; New York, N.Y.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 60 rights and 600 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.,

Mention American Florist.

OUR . . . HALF-TONE

ENGRAVINGS

ARE MADE BY

J. MANZ & CO., Engravers,

183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns!

KILLMRIGHT

REGISTERED

NON POISONOUS INSECTICIDE

DEATH TO INSECTS MILDEW LIFE TO TREES, PLANTS, FRUIT, FLOWERS.

PRICE 2lb. CAN .50 5lb. \$1.20 10lb. \$2.25 20lb. \$4.00

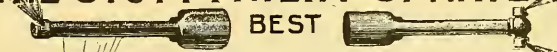
STOTT DISTRIBUTER

DIAMETER 4" SECTIONAL VIEW LENGTH 30"

INSECTICIDE IS AUTOMATICALLY MIXED.
SAVES TIME AND MONEY.

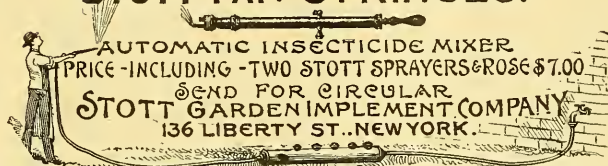
PRICE IN COPPER 2 CELL \$9.00-3 CELL \$10.50-5 CELL \$12.

THE "STOTT" PATENT SPRAYER.



BEST

SPRAY LIKE MIST, NEVER CLOGS, ALWAYS IN ORDER
STOTT PAT. SYRINGES.



AUTOMATIC INSECTICIDE MIXER

PRICE INCLUDING TWO STOTT SPRAYERS & ROSE \$7.00

SEND FOR CIRCULAR
STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST. NEW YORK.

SMITH & WEBSTER,

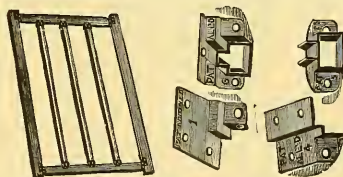
MAKERS OF

GREENHOUSE PIPE,

FOR HOT WATER AND STEAM,

193 Lake Street, CHICAGO, ILL.

Mention American Florist.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.



SPHINCTER GRIP
SPRING STEEL GALVANIZED

ARMORED

Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose
can be applied.

Sizes, 1/4-inch to 42 inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our
Patents. The rights secured to us render each individual dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO.,
Sole Mfrs and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT
DRAINAGE

BENCH TILE

For testimonials, circulars, etc., address

W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY.

Used by all the leading
Growers and Horticultural
Builders.

Bulb Culture in the South.

A writer in your columns recommends the upland country of Georgia for this purpose. While I have no doubt that the climate there is favorable to the purpose there is still no doubt in my mind that Mr. Allen was right in advising the culture in North Carolina, where the growers have long been supplying the market with tuberous bulbs. The winter climate of the eastern coast region of North Carolina is milder than that of any of the upper half of Georgia, while for bulb culture the soil is infinitely superior.

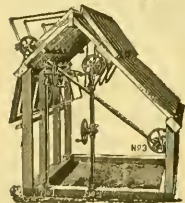
We have in eastern North Carolina vast areas of black peaty soil of uncommon depth and wonderful fertility. The black lands of Hyde, Onslow and other counties have long been noted for their inexhaustible fertility. In Hyde county, around Lake Mattamuskeet the lands have been in corn continuously for 100 years, and to-day the chemist can find no diminution in the wonderful fertility of this great bed of peat. This same mass of black soil extends through several counties near the coast, and here, with a soil better than Holland and a climate better than Italy, all the more tender and most of the more hardy bulbs can be grown to greater perfection than anywhere I know of.

Lands in this section can be had for a mere song and railroads are penetrating them in every direction, while water communication is plenty and cheap. If some of our northern friends who are growing lilies in Bermuda would turn their attention to this section I feel sure they could grow better bulbs than in Bermuda. Here all the fine amaryllis thrive wonderfully, making great masses in the open ground without any winter protection. Cannas grow like the reeds of the canebreaks and Caladium esculentum grows like a weed and needs no winter protection. The whole family of narcissus make bulbs that will put those of the Sicily Islands to the blush. Here, too, cuttings of all the remontant roses stuck in the open ground in autumn make blooming bushes the following spring and grow as high as a man's shoulders by the following autumn, making plants that would easily drive all foreign competition away by the low price at which they could be put upon the market. And all this within 24 hours of New York city, and on land that can be bought for from \$3 to \$5 per acre.

W. F. MASSEY.

N. C. Exper. Station, Raleigh, N. C.

THE STANDARD Ventilating Machines

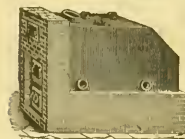


Received best awards

at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue
and prices

E. HIPPARD,
Youngstown, O.



GREEN-HOUSE
HEATING.

Meyers & Co.,
1173 S. Ninth St.,
PHILADELPHIA.

Send for catalogue
and price list.

CARNATION CULTURE;

L. L. LAMBORN
Third Edition, containing all available information
on the subject NOW READY. Price, \$1.50
mail. Address H. E. CHITTY, Paterson, N. J.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.

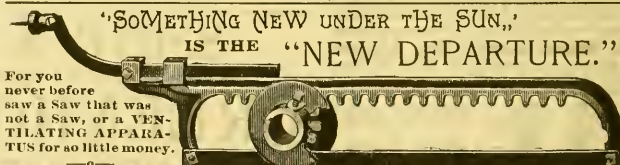
MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

OUR NEW TRADE
DIRECTORY
FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN
and SEEDSMEN of the United States and Canada.

Price, \$2.00.
AMERICAN FLORIST CO., 322 Dearborn St., Chicago.



For you
never before
saw a Saw that was
not a Saw, or a
VENTILATING APPARA-
TUS for so little money.

Send for our TREATISE ON VENTILATION and learn all about it. And, if you need the best Boller in America, send for catalogue of our "CHAMPION."

J. D. CARMODY, Evansville, Ind.

**BUTTED
GLASS
SASH
BARS.**

Does away with all
putting and trouble
in replacing broken
lights of glass. We
have been busy fill-
ing orders for this
kind of a bar, in

Clear Cypress.

Shall we hook your
order next?

Enclose 2c. stamp for
sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgr. LOCKLAND, OHIO.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREEN-HOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & ETC



IMPROVED GLAZING.

Zinc Joints for butting glass without laps. No leakage. No sifting of glass. Practically airtight. Keeps out cold winds, thereby saving fuel. No laps saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's" Patent Zinc Joints with entire satisfaction.

Write for sample and price list.
J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O

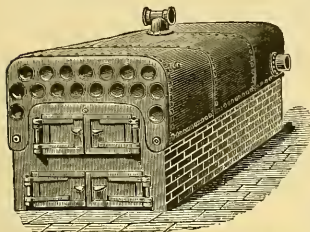
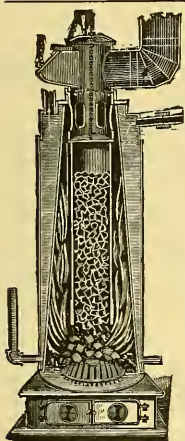
Please mention the AMERICAN FLORIST
every time you write to an advertiser.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.**CHICAGO.****THE WILKS HEATER,**
FOR HEATING

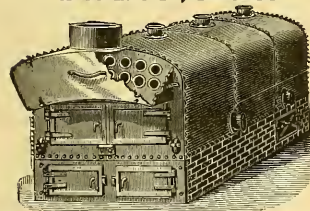
GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured **THE S. WILKS MFG CO.** 123 S. Clinton St.,
CHICAGO, ILL.

SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED**Greenhouse x Boiler,**

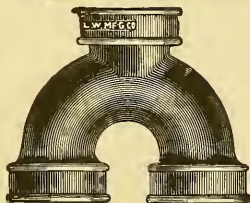
41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, flanges
(heads and heads of steel), water pipes all around
(front, sides and back). Write for information.Mention the AMERICAN FLORIST
when writing advertisers on this page**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

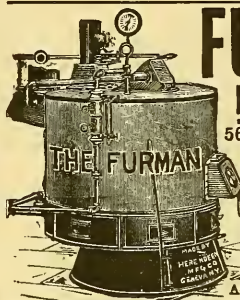
291 Amity Street, FLUSHING, Queens Co., N. Y.

Greenhouse Pipe and FittingsLarge quantities of our Pipe are in use in Green-
houses throughout the West, to any of which we
refer as to its excellent quality.Pipe can be easily put together by any one, very
little instruction being needed.**GET THE BEST!**Hot-Water Heating, in its Economy and Superi-
ority, will repay in a few seasons its cost.

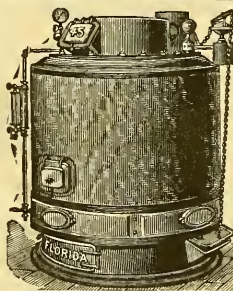
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**FURMAN BOILERS****Economical — Substantial — Safe!**

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Staunchness, Durability
and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and
Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.**
Send for new 150-page book giving full particulars and a great
deal of valuable information on modern Heating and Ventilation,
with plans and tables for correct hot-water work. Mailed free.Address **HERNDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.****Save Your Coal** **PLANTS & FLOWERS****STEAM & HOT WATER****FLORIDA HEATERS****FOR GREENHOUSES.**

Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water.

THOUSANDS AND THOUSANDS IN USE.Has a Magazine Feed. Throws out No Gas. Saves 25 per
cent in fuel. Gives a uniform heat day and night. Fully
warranted in every respect and guaranteed to give satisfaction.
Reliable Agents in all the leading cities and towns in the
United States. Send for new catalogue. Address**PIERCE, BUTLER & PIERCE MFG. CO.**
SYRACUSE, N. Y., U. S. A.**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER
OR
ERICSSON PUMPING ENGINE

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.**For Your**
GREEN HOUSE,
ROSE HOUSE,
NURSERY,**ERICSSON****D. H. ROBERTS,**159 & 161 S. Fifth Ave., **NEW YORK,****NATURAL GAS MADE GLASS**for **ROSE HOUSES, CONSERVATORIES, Etc., Etc.**

Our Glass received the Highest Award at the Boston Convention of the S. A. E.

Index to Advertisers.

Abel C C & Co.	174	McCarthy N F & Co.	175
Adams Nurseries	171	McFarland J H	175
Bailey F A	172	McFarland J H Co.	175
Barnhart Joseph	173	McKellar & Sperry	175
Barnard W W & Co.	174	Nantz J A & Co.	181
Bayersdorfer H & Co.	175	Naring Hart & Co.	182
Bayer H H & Co.	177	Marschütz & Co.	177
Bock Wm A.	172	Neve John C & Co.	174
Bohemer Louis	178	Michel Plant & Bulb Co.	172
Bonsell Jos E & Son	173	Miller Geo W.	175
Boston Lattor Co.	180	Moffatt G J.	176
Box John R.	179	Mohrman Jm C.	172
Brazee L B.	172	Moore Samuel C.	172
Brauer & Richter	171	Moore Frank L.	173
Burns & Layner	175	Mundt Henry	175
Burrow J G.	172	Myers & Co.	182
Buxton Geo E.	172	Nantz & Neuter	179
Cameron H L.	173	National Hot Water Heater Co.	184
Carman R W.	183	Olson M.	175
Cardinal J D.	182	Oswerk	175
Chandler & P.	173	Peck & Sutherland	175
Chitty H E.	182	Pierce & Coleman Co.	181
Cook John	173	Pennock Sam T S.	175
De Cock Jules	174	Phoenix Nursery Co.	178
De Launier Iron Wks.	183	Pierce Butler & Pierce	183
Delmont Heating & Lighting Co.	184	Pierston A S.	174
Devine's Boiler Wks.	183	Pierston F R Co.	176
Dietrich A & Co.	173	Pitcher & Mandin	178
Dillon J M.	173	Pyunett Edw.	175
Dungee & Conard Co.	179	Quaker City Mach Wks	181
Dyer H A.	178	Randall A.	175
Eames H W & Co.	181	Reading Nursery The	172
Edgarth Theo.	176	Reck John.	172
Ellott W H.	174	Reed James F.	175
Ellison Wm.	175	Roberts D L.	175
Faust H G & Co.	178	Roebuck Theo.	175
Flehm Lyman.	178	Roggenkamp H	175
Fleld S B.	172	Rolker A & Sons.	171
Forest Glen Floral Co.	172	Sander & Co.	172
Foster L H.	173	Saul John.	172
Gardner J & Co.	182	Schmitz F W O & Co.	176
Gasser J M.	182	Schmitz Bros.	173
Gibson J C.	177	Schultz Jacob.	175
Gonzalez & Co.	177	Scollay John A.	184
Hammond Benj.	180	Seibert F & Sons.	175
Hancock Geo.	172	Shardian W F.	175
Hart James	172	Sherwood Hall Nur.	171
Hartford & Nichols.	175	Siebrecht & Wadley	177
Henshaw Samuel	175	Situations, wants	174
Henderson Mfg Co.	183	Smith C A Floral Co.	175
Herr Albert M.	178	Spencer Nathan & Son	172
Hewes A H & Co.	182	Smith & Webster	181
Hill E G & Co.	172	Spencer Wm H.	175
Higdon E.	182	Stevens N.	174
Hitchings & Co.	184	Stock Thomas	177
Hoffman F M & H N.	177	Stutt Yarden Imp Co.	181
Hooker H M Co.	181	Styly S O.	179
Huscheloch Bros.	176	Studebaker Mrs J F.	172
Hunt E H.	175	Sunderburch H L.	175
Hunt M A.	175	Swayne Edw.	172
Hunter & Purdy	172	Touffner Aug.	178
Jevins John Co.	177	Tricker Wm.	172
Jennings E B.	178	U S Wind Engine & Pump Co.	181
Josten C H.	180	Vaughan J C.	175
Kennecott Bros.	175	Vose Fred L.	172
Kreschell Bros.	182	Waterbury Rubber Co.	181
Kuchn C A.	175	Weathered Thos W.	184
Lake City Floral Co.	175	Weeber & Don.	176
La Roche & Stahl	175	Wells Pot Co.	182
Lau Paul F & Co.	175	Wm Pot Co.	182
Lawrence John	184	Wm Pot Co.	182
Lockland Lumber Co.	184	Wool L Mfg Co.	175
Loubari R T.	172	Wood Bros.	175
Long Dan L B.	175	Young J M & Co.	180
Louise Edwin.	172	Young Bros.	175
Lovett J F Co.	171		
McBride Alex.	172		

PERRY, O.—The L. Green & Son Co. succeeds the old nursery firm of L. Green & Son.

NEW LONDON, CONN.—W. E. Pendleton & Co. have built a new plant of six houses here, of which three are 100x11, one 100x9, one 100x15 and one 100x16, with a two-story office 16x20 in the center. Hot water is used for heating. A general collection of cut flowers and bedding plants will be grown.

THE GREAT FUEL SAVER THE CELEBRATED

BOLTON
HOT WATER HEATER
ITS FIRE HOLDING
QUALITIES UNEQUALLED.

ESPECIALLY ADAPTING IT TO

GREENHOUSE HEATING.

**DETROIT HEATING
AND LIGHTING CO.**

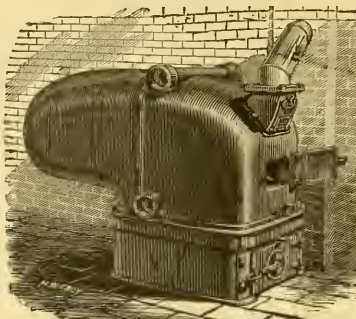
Lieb and Wight Sls., DETROIT, MICH.

NEW YORK, 26 Liberty St. CHICAGO, 88 Lake St.
BOSTON, 42 Pearl St. ST. LOUIS, 414 N. Broadway

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

GREENHOUSE HEATING & VENTILATING Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

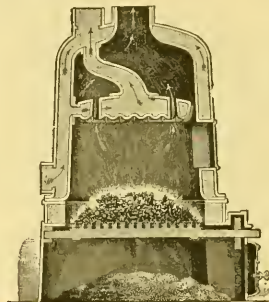
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

*Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.*

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING — AND — Ventilating Apparatus.

Patentee and Manufacturer of
**HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.**

Estimates of cost given, and Illustrated Catalogue furnished on application.

The SPENCE HEATER
BY HOT WATER CIRCULATION.
FOR HEATING
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS

Hot-Water Boilers,

244 CANAL STREET,

NEW YORK.

When you write to any of the
advertisers in this paper please say that
you saw the advertisement in the
American Florist.

SASH BARS

VENTILATORS, RIDGES, GUTTERING
AND LUMBER.

NO WIDE-AWAKE FLORIST need be told
it will pay him to use SASH BARS,
etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO

Mention American Florist.

ROSES. Our TRADE DIRECTORY contains the
date of introduction and the name
of the introducer of all the roses in commerce in
America. Price \$2.00.

AMERICAN FLORIST CO., CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort' Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, SEPTEMBER 29, 1892.

No. 226

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; Mr. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August 1892.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS

Practical wrinkles in culture	185
Roses—Seasonable hints	185
Mushroom growing by florists	185
Plants for the west—In trade	186
Bird's-eye view of World's Fair (illus)	187
Australian plants at World's Fair	187
Carnations—Lifting	188
Quarantine regulations	188
Double petunias (with illus)	188
Philadelphia	188
New York	189
Washington	189
Chicago	190
Boston	190
Toronto	190
Baltimore	191
Buffalo	191
Worcester, Mass.	191
Woman's building at World's Fair (illus)	191
Wayne, Pa	191
One way of preparing a catalogue	192
Fancy caladiums in the south	194
News Notes	194
Coming Exhibitions	195
"Garden design"	195
The Seed Trade	195
—Annual rape	198
Blight of cultivated cardinal flower	200
Color of the Niphetos rose	202
An unfortunate deal	204
Foreign notes	205

WASHINGTON, SEPT. 28.—Mr. Wm. R. Smith, representing the Society of American Florists, and Mr. R. J. Whittleton, representing the American Seed Trade Association, called to-day on Assistant Secretary of the Treasury O. L. Spaulding, and he assured them that there would be no unnecessary delay in the customs department at New York as regards importations of plants, bulbs, etc. His department has no jurisdiction over the health officers. Messrs. Smith and Whittleton state that the interview was satisfactory to them.

You can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

Practical Wrinkles In Culture.

Edwin Lonsdale is a man of wrinkles, not the facial variety, but greenhouse wrinkles, from little ones that are hardly to be seen to others more noticeable, but perhaps not more practical or useful. To follow in the old rut is entirely foreign to Mr. Lonsdale's nature; he is an eager searcher after something new, and is quick to recognize merit either in plants or in matters of cultivation. We have noticed at times amongst his seedling carnations new varieties which to our eye seemed valuable, but which were not considered by him worthy of a name.

"They are as good as so and so" (varieties on the market). "Yes, better, I think, but we want to raise the standard; the coming carnation must have a broader petal, a long stem stout enough to hold the flower erect, and a calyx that will not burst. We are getting there by degrees; these will do to breed from, and perhaps we may have something to show you next year. I have some promising seedlings now, distinct types. Grace Battles is the only real good one I have gotten so far; the trade seems to like it, as I have orders for 15,000 booked now. We are planting this house with it and expect to have a lot of blooms this winter."

"Which do you think is the most popular white?" "Lizzie McGowan seems to be the best liked; they are all planting it largely, and I find more inquiries for it. Silver Spray is considered the white about Buffalo, N. Y., and Canada, and there are localities where the much abused Lamborn is thought very well of by some people. I am going to plant this solid bed with carnations; it has concrete edges and I have put some ashes in the bottom for drainage."

"This is a fine house of Beauties." "Yes, they look very well, if we can only get them to hold their leaves; at present this lot looks better than the next house, which, although they are all right, do not appear as promising. These were not planted for two or three weeks after the others, nor were the plants quite as large, but they were growing nicely and just ready for a shift, while the others were a little pot-bound. Keep a thing growing if you want it to do well."

"Do you use any particular soil for Beauties?" "No, only the best loam. We plough the ground in the spring, putting on a layer sufficient to cover nicely, of bone dust and wood ashes, using twice as much bone dust as wood ashes, but no manure; that we use as a top dressing, after they have been planted about a month. I think our natural soil suits them, as they do pretty well about here. I have as many again planted this year as last so as to try and supply the demand for it. With this side bed we are trying an experiment. The bottom is of bricks laid on the ground like a pavement. I

think the roses will do well on it; they should be well drained."

"How do you like the Hoste?" "Well, it sells better than it used to; people have begun to realize that it is a pretty good thing. It is certainly a free bloomer. I like these galvanized iron rods for staking, they are so clean and neat, and will never wear out; they are made of No. 10 wire and only cost about three-quarters of a cent a piece for a 5-foot rod."

"Here's a new white rose I think a great deal of, Kaiserin Augusta Victoria; it suggests the Bride and Mme. Hoste, is a strong grower and very free bloomer, the flowers of fine form and delightfully fragrant. I see nothing against it, and believe it will be a good thing."

"This rose, Gustave Pignaneau, is very highly spoken of in England; it received several silver medals at the leading shows there last season. Will have to try it here before we can say anything about it."

"This rose Mr. Asmus speaks highly of; it is called Triumph de Pernet Pere, and suggests a very high colored Cusin."

"This table is all Caroline Testout; I first saw a flower of this at Mr. Asmus' place, and it was much finer than the best La France I had ever seen; it is a delicate pink and yet has more life in it than La France and is larger; I think it a great acquisition."

"These hybrids are undergoing the drying process; we commenced to dry off early in August, and have to look out and not let them get too dry, as the wood must not shrivel too much; they are looking very well. I expect to have this lot in flower about the middle of January; it takes about thirteen weeks to bring them in flower after they are started."

"You have a lot in boxes outside." "Yes, I tried some that way before and liked it well enough to plant another lot; they have been growing in the house all summer and are put outside to ripen the wood."

"What a lot of kentias you have." "Yes, I have great faith in the kentias; they are slow growers, and on this account more expensive than others, but they are worth the difference, as they will last. People are beginning to find it out, and the demand is increasing. The areca is always a popular palm, and we can scarcely keep pace with the demand for large sizes."

"How about insects?" "Well, we are not so much troubled at this season, when the plants are growing fast, as in winter, but they take a lot of looking after at all times."

"Orchids! Now you're home." "Yes, I must say I like orchids, and I find of late I am getting lots of company. Here is a variety, Dendrobium Phalenopsis, that Sander has recently discovered in quantity, it will, I think, be a good commercial variety, as it flowers freely. Frequently an old pseudo-bulb will throw out a

spike of flowers in addition to those borne on the young growth. It has a stem like a lilia, is not unlike in form, and it will last much longer when cut. *Dendrobium formosum giganteum* has become more plentiful, and is a good commercial variety. The flowers are almost as large as a cattleya, pure white with yellow center. One growth will frequently produce five flowers. This lot of cattleyas are taking hold nicely; it is the most popular of the whole family."

"You have a fine lot of *Cypripedium Lawrenceanum*." "Yes, I am proud of this table; they tell me there isn't another lot like it in the country."

"I suppose you are still looking for another white one?" "Yes, I haven't given up hope; I am inclined to think they sport, though some people laugh at me for saying it. These are *Spicarianum*. I think a lot of it; not such a strong grower as some others, still it increases very well. This is the early *C. Percivaliana*; will be in flower by the holidays; valuable in this respect. Under this chestnut tree I find these lilies to have done very well. Up on this bench they get plenty of air and it is cooler than the house; they are from the mountainous regions of Mexico and like the cool fresh air. I think a great many orchids are given too much heat, and would do better with this kind of treatment."

"This lot of *chrysanthemums* look like seedlings." "Yes, they are. Some are from seed I received from California, and a good many are from seed I saved myself. Come around in the fall and I think I shall have some good ones to show you." K.



The season has now arrived when extra care will be required to avoid allowing heavy dews to settle on the foliage at night, or the result will be very disastrous, particularly where the growth is very soft and tender.

If, as it often happens at this season of the year, some nights should be cool without getting apparently low enough to need fires, in fact though the temperature in the houses may not go much below 56°, yet if the air is clear a very heavy dew will form on the foliage; this, if allowed to repeat itself two or three times, will almost surely cause the foliage to wither during the hot sunny part of the day, and in a day or two after will turn brown spotted and many of the leaves will drop off when touched. Often the young growths will turn almost black and every leaf fall off back to the older wood. I have described this disease several times in former years, still from what I hear from my correspondents it seems necessary to repeat the caution as it is still doing considerable damage in some localities.

In such weather as described above it is far safer to have just fire heat enough to create a circulation of air and to avoid unduly exciting the plants into rapid growth have a crack of air on all night. The actual time in which the damage is

done is from 4 to 6 a. m., and if it could be arranged to have the houses slightly heated during that time all danger from this disease would be avoided.

Where this trouble has already made its appearance a drier atmosphere should be maintained and all the leaves and diseased branches cut clean away back to healthy foliage; hold the plants slightly drier at the root than previously, till they start new growths, and remember that the roots have received a corresponding check with the tops so that recovery is sure to be somewhat slow. Where it strikes badly it will take six to eight weeks for them to recover their vigor again; and I have seen cases where it took nearly double that time to get anything like strong growth from such plants, which means the loss of buds for the most valuable part of the season.

Mildew and green fly will often become troublesome from this same cause and should be kept constantly in check, the former by applying sulphur in some form, of which there are many, and nearly every grower has some special way which he prefers. We have tried several means of applying it here, but prefer the bellows to any other as it makes a very fine cloud of dust, which settles on every particle of the foliage without wasting a lot of sulphur. We find it destroys the fungus best by closing the house during the time and allowing it to remain closed till the temperature runs up to 85°, then gradually put on air till reduced to normal condition.

For green fly, tobacco in one form or another is by far the best remedy yet found. By keeping the houses clean and free from weeds, dead leaves, etc., very much of the trouble with insects, fungus, etc., can be avoided, at the same time making it much more pleasant to work and care for the plants.

Where plants are growing freely a mulching of well decomposed manure will be of great help to them, but it should only be applied thinly, half to three-quarters of an inch thick is much better than a heavier coat at this time of year.

Syringe on every favorable opportunity and water according to the conditions of the weather and requirements of the plants. On bright warm days plants that are growing vigorously will take fairly liberal watering, while, on the other hand, those which have not yet started into active growth should not be over watered at any time, as much of their future success depends on present treatment. JOHN N. MAY.

Mushroom Growing by Florists.

BY J. F. KIDWELL.

[Read before the Chicago Florist Club, Sept. 22.]

Noticing the various advertisements of mushroom spawn in floricultural papers, the idea struck me, that the space under greenhouse benches could be utilized to better advantage than as storage-room for old pots, boxes, etc. I made a trial with the cultivation of mushrooms under benches about two years ago, starting with four beds under different centre benches of my greenhouse, one bed measuring 3 x 80 feet, the other three measuring 6 x 45 feet.

Not knowing anything about the cultivation of mushrooms I consulted different books giving instructions on this subject and found that they were very particular about the manure used, instructing that it had to be free from straw or litter, but experience has taught me since, that any kind of fresh horse manure will answer just as well. In starting beds I have the

manure thrown in a pile and let it heat and sweat just as if I wanted to use it for hot-beds. I then bring it under the benches in well powdered layers about 16 inches deep. Before spawning the bed the temperature of the manure will have to come down to about 90 degrees. I then break up the 1-pound bricks of English mushroom spawn in about eight or ten pieces, and plant them 8 inches apart, covering the whole bed afterwards by two inches of common garden soil. The beds have to be kept moist, but not too wet, and the spawn will start in about eight or ten weeks.

In order to find out if this thing was a paying investment I have kept an accurate account of the sales during the first season. Out of the 175 pounds of spawn planted in the middle of September I sold during December \$48.00 worth, during January \$95.70 worth, during February \$102.25 worth, during March \$116.75 worth, during April \$66.60 worth and during May \$96.40 worth of mushrooms, making a total of \$525.60, or a trifle over \$3.00 to each pound of spawn planted. I always found a ready market at 75 cents to \$1 per pound for all the mushrooms I could pick, and I believe if the trade could depend on more liberal supply it would greatly increase the demand for this delicious relish among consumers.

I was reading not long ago that over \$1,000,000 worth of canned mushrooms were imported annually from France alone and there is no excuse for us florists, with all the waste space under our greenhouse benches, and the McKinley Bill for protection, why we shouldn't be able to take care of this trade.

In the discussion that followed the reading of the above paper Mr. Thorpe called attention to the necessity of protecting the beds from draughts, and said that where doors happened to be adjacent to the beds it was wise to suspend a canvas curtain from the bench above at that point in order to ward off draughts. Mr. Kirkham stated that he had been growing mushrooms in much the same manner as that described by Mr. Kidwell and had found it very profitable, and he had also found that 10 inches of manure in the beds did just as well as the 16 inches recommended, thus making it possible to make larger beds with the same amount of material. In regard to drip no trouble had been had with beds under benches planted to roses or carnations for cut flowers. On benches devoted to pot plants there would be danger from drip. Most of Mr. Kidwell's beds are under center benches high enough to permit a man to stand near enough upright to pound the material in the bed, but under a very low bench he had made use of a tool made of two long handles that reached across the bed from walk to walk with a heavy block in the center, and with this tool two men, one at each end, could do the work very nicely. All who spoke upon the subject agreed that the growing of mushrooms under greenhouse benches was an industry that brought big returns for a small outlay and that it would be difficult to glut the market, which seemed to improve with the increase in the supply.

Plants for the Western Trade.

There is a marked difference between eastern and western plant trade, largely due, no doubt, to climatic variations. Crotons appear to be of little use through the west, excepting, of course, indoors



BIRD'S-EYE VIEW OF THE WORLD'S COLUMBIAN EXPOSITION.

outside they will not stand the high winds and abrupt changes of temperature, and the same may be said of many other tender ornamental plants, which naturally debar them from general use.

One of the most satisfactory plants for this class of trade is *Ficus elastica*; the large retail demand makes big sales for the wholesalers. Its sale continues to increase throughout the west, and its robust constitution makes it thoroughly satisfactory. The taste for palms is on the increase in all sections, and the western demand is so large that it has caused quite an increase over former prices within the past three months. The varieties called for are those sorts possessing vigor and hardness; what we call florists' palms. *Washingtonia filifera* is found desirable, it bears knocking about, and is ornamental in appearance and moderate in price. *Kentia*, *areca*, *seaforthia* and *phoenix* receive the same favor here as in the east. Among ferns a leading favorite is *Nephrolepis exaltata*, but this finds its chief sale among the city retailers. Somehow fern sales are not very large outside of the cities, where the present taste for fern baskets has increased sales in this direction. *Pteris victorie* seems extremely desirable for such trade; it is handsome, distinct, and appears as robust as those others of its family in general use. *Davallias* and *gleichenias* find good sales, though perhaps less than the *nephrolepis*; but *Platynerium alcinorne* does not appear to be quite so much used here as around eastern cities.

Among general decorative plants *aspidistra* seems to hold its own all over the country, and the sales are very large both east and west. *Pandanus Veitchii* seems to be growing in greater favor than *P. utilis*; it is handsomer to begin with, and it retains its good looks, while the last named becomes so very rusty. This defect appears largely due to defective watering; if the plants are allowed to dry out, and then soddened, or vice versa, we soon notice a change in the color.

It may not be out of place here to remark on the excellence of cocoa fibre as material for the propagating bed, for seed either of palm or pandanus, or for rooting pandanus suckers. The percentage of loss with this fibre is very small, and the material may be used over and over again. It has been used abroad for a long time, and is now coming into general use in the east.

Among dracenas, *fragrans* seems to hold high favor, standing better than some of the bright colored sorts. Western retailers say that many house plants of the ornamental foliage type which are found thoroughly satisfactory in the east are not so good in the west; whether it is that the outside climate affects them, or whether the houses are more overheated, it is hard to say. It is this fact that makes the *ficus* such a favorite; it is not easy for an amateur to kill it.

Begonias of the older types are very largely used through the west, but the tuberous varieties have not yet made much progress, and it is the general opinion, as shown by the experiments at Jackson Park, that they require some shading to be successful, so they are likely to be more favored indoors than out.

The western rose trade is, as we know, very large, perhaps strongest in the direction of teas, which seem to find larger sales than other sorts among amateurs for summer bedding. Some of the little multiflora roses are very popular, and there seems a good place for *Clothilde Soupert*. Among hybrid remontants for bedding we find need for care in the selection of varieties, as the abrupt winter changes are very trying to any rose lacking in vigor.

Australian Plants at the Columbian Exposition.

Saturday, September 16, the department received an exhibit from the Australian government, consisting of the following plants.

Tree ferns: these arrived in fine condition, and a grand lot of specimens they are; nothing like them has ever been seen in this country. One of the most interesting pieces is a twin specimen of *Alsophila australis* and *Dicksonia antarctica*; the *alsophila* is the tallest specimen in the collection, measuring a little over thirty feet high, the *dicksonia* about ten feet high. They are joined closely for about three feet up from the roots so that it looks like one plant with two stems. There is one other, an antarctica twenty feet high; both of these plants measure nearly two feet in diameter at the base. *Alsophila Cooperii*, six pieces from ten to twenty feet high. *Dicksonia antarctica*, thirty-one superb pieces, which have to be seen to be fully appreciated, none of these are less than six feet and a number sixteen to eighteen feet high, the trunks of the largest measuring over two feet through. Two specimens of *Podocarpus barbara*, about four feet high, and three feet in diameter.

Next we must admire some superb specimens of the Stag's-horn Fern, *Platynerium alcinorne*, eight pieces growing in circular form around the trunks of trees; these trunks were chopped off two feet above and below the plants, and thus securely fastened into heavy crates; every plant arrived in splendid condition. A number of them are fully six feet across from the tip of the leaves and stand about three feet high. The Bird's-nest fern, *Asplenium nidus*, is represented by twelve fine plants, grown and shipped in tubs, doubtless the finest and largest specimens ever exhibited, the fronds of most of the plants from five to six feet long. *Macrozamia spiralis*, twelve plants in tubs, very large and fine pieces, although the fronds—five to six feet long and well furnished, were badly injured. The base of the specimens measure five to six feet in circumference.

Macrozamia Denisonii, three pieces two and three feet tall—this concludes the list.

There was also received an exhibit from the West Indies. This consists mostly of

the following plants and trees grown by that country for their commercial value. *Saccharum officinarum* (sugar cane), *Bica orellana*, the seed of which furnishes the well known anatto, a dye which is used by dairy men for coloring butter and cheese. *Coffea arabica* (coffee tree), *Cocos nucifera* (cocoa nut), *Musa sapientum* (banana), *Colocasia esculentum*, *Panax plumatum*, *Aralia Guilfoylei*, *Punica granatum*, *Achras Sapota*, *Ravenala madagascariensis* and *Bogacea variegata*. Most of this stuff suffered considerable from the long time it had been in transit, but it will be grown in good condition for next spring. F. F. B.



Lifting Carnations.

No doubt many growers have their carnations securely housed by this time, but it seems to us many are in undue haste in this matter. Much depends on the condition of the plants, on the latitude of the place, whether we wish our flowers early or late, and, to some extent, on the weather. The carnation plant can be transplanted from the open ground best when the buds are not greatly developed. This, as a general rule, for, with care, they may be shifted when in full bloom, but this depends greatly on the variety. It has been our practice to so trim our plants as to have a full crop of bloom at Christmas, and to secure this they should not be too forward at the present time. While we have had excellent results when we have planted in the latter part of August, we think it better to defer the planting until at least the latter part of September, and even to the middle of October. Carnations make their best growth at this season of the year; the cool, damp nights and not too hot sun are congenial and they make rapid advancement. If the plants have passed through a hot, dry summer it is all the more important to give them all the time possible for development in the fall. Don't be afraid of light frosts. They will grow all the better for it and we think it does them good. Of course a freeze will hurt the buds, but a carnation not in bud will stand a great deal of cold without injury. We would repeat then that we would prefer our plants to have a light frost before transferring to the house, but not enough to injure the buds. It tends to ripen the wood and prepare the plant for the severe strain put upon it during the winter season.

In lifting the plants shake them clear of dirt, but do not unnecessarily break their roots. This is a much mooted question—whether to lift with or without balls. We prefer the latter practice, and that mode is now generally followed by most growers in this section at least. Whether or not the plants do as well is not such an important matter as the labor and time saved in handling them without the earth attached. But we do contend that the ball of earth is of no advantage whatever—rather the reverse, for the roots of the plant should come in immediate contact with the fresh soil of the bench. The white working roots of the carnation will be found far down in the soil and impossible of removal with the plant in the

ordinary process of digging—the “ball” will contain very few of them. Cloudy days are the best for lifting, but should the sun be shining get the plants into shade as soon as possible, and in either case moisten the roots at once, not allowing the plants to wilt at all. When packed in a box or tray, with well wet roots, they will keep over night, or, indeed, for several days, but it is best to plant in the benches immediately.

Avondale, Pa. W. R. SHELMIER.

Quarantine Regulations.

THEIR EFFECT ON PLANTS AND SEEDS.

Thus far neither plants, seeds or bulbs have been delayed or damaged so far as we have been able to learn by careful inquiry East and West, excepting that some varieties of narcissus and crocus have been found rotten on arrival. This was probably not wholly caused by the quarantine delay, but possibly in part damaged before the stock reached this side, as Dutch narcissus are seldom ready to come with hyacinths and tulips, although often sent with them. Messrs. Rolker & Son write under date of September 22 that Health Officer Dr. Jenkins will, it is believed, arrange that florists' goods, bulbs, etc., and other like perishable stock, will be disinfected separately from other parts of the cargo with proper regard for the contents of each case, at least they understand that the vessel agents have been promised this.

The customs and tariff committee of the American Seed Trade Association have been working on this matter since September 6 to ascertain exactly what definite rules the Secretary of the Treasury would adopt on this point and what they would guarantee should be carried out at the various ports. So far no definite information has been given, but the FLORIST expects daily from President-elect Wm. R. Smith of the Society of American Florists some information in regard to the rulings of the Department, meanwhile everything is conjecture, but it is reasonably safe to assume by the time lily of the valley, azaleas and like plants arrive matters will be in better working order than they have been in the past two or three weeks.

Seeds, so far, both for Philadelphia and New York ports have not been interfered with in any way; this we are advised of under date of September 24.

Double Petunias.

We may note a marvellous improvement in the strains of petunias sent out during the past year or two, and the increased sale of this plant is a natural sequence of the improvement. For a few years petunias were certainly out of favor among buyers of good bedding stuff, but last spring both double and fringed sorts sold well in all sections. In some localities they were received with marked favor as pot plants. It must be noted that these double sorts, to come true, must be propagated by cuttings, not raised from seed. The large dealers always propagate in this way, to secure sorts true to name.

Great improvements in this flower have resulted from hybridizing, many men in the trade turning their attention to this. The flowers pictured originated with G. A. McTavish of Victoria, B. C., and are all excellent named sorts.

PLEASE mention THE AMERICAN FLORIST every time you write to an advertiser in these columns.

Philadelphia.

The mushroom industry is progressing rapidly and the market this season is likely to be better supplied with this succulent than ever before. Quite a number of men are becoming interested and considerable money is being invested in the business. John Gardiner & Co., who have great faith in the future of this edible, say that the sales of spawn have increased wonderfully, they having sold more since the first of August this season than they sold altogether for the year previous.

Mr. G. H. Beck of Meriden, Conn., was in the city recently and engaged Mr. J. Gibson, late manager of the Lonsdale Mushroom Culture Co., to manage his plant, to which he has recently made a large addition this season. He expects to ship at least 10,000 pounds to New York, which is his best market.

Robert Scott & Son of this city have been giving the mushroom considerable attention of late, and the result must have been satisfactory, as they have just completed a large combination house, the ground floor of which is fitted up for this vegetable, while a complete greenhouse forms the upper part; it is a very well arranged house and looks as if it will be a success.

Mr. S. B. Dicks, representing Messrs. Cooper, Taber & Co., a large seed firm of London, passed through here last week.

We were also favored with a visit from E. G. Hill, who seemed to be giving the rose growers his special attention. He is largely interested in the new rose Mme. Testout and has great faith in its future. Robert Craig, in speaking of this novelty, says: “Look at La France, how long it has held its own in the market; it has been a leader in its class for years and a profitable rose for everybody. Now it will have to give way to this new rival, which is better in every way, as it is larger, a better color, being a clear pink all through, and a freer bloomer; when placed on the counter side by side with La France there is no question as to which will be the better seller.”

George Carpenter of Haddington has erected an additional house, being obliged to make more room for his lilies and other Easter stuff. He is putting in hot water, using a Weathered apparatus and old boiler flues, which after being trimmed up at the ends are joined together with a cast iron fitting. He finds this arrangement to answer every purpose and he can put it in for about one-third the price of new pipes.

Beauties were in great demand the past week; they are now sold at retail for \$3 a dozen and at this price they seem to be the best selling rose; but they will not remain long at such a low figure. Perles, as usual at this season, are very plentiful, the supply being greater than the demand. Prices of roses are about the same, good flowers selling for from 2 to 4, according to quality and variety. Carnations are getting better and violets more plentiful.

The various committees of the Horticultural Society are getting things in shape for the chrysanthemum show. If the plants seen about continue to improve as they have the past month there will be some stunners at the next exhibition.

H. Bayersdorfer & Co. have made a clean sweep of all the damaged goods left from the late fire by putting them on the rubbish pile and burning them up, a wise policy, and one which will do them more good than any cheap “fire sale.” They have fully recovered from the confu-



DOUBLE PETUNIAS.

- | | | |
|-------------|---------------|-------------|
| 1. Rita. | 2. Hilda. | 3. Cemax. |
| 4. Aimee. | 5. Nanaimo. | 6. Annie. |
| 7. Caribou. | 8. Vancouver. | 9. Lillian. |
| 10. Nuadra. | 11. Alberni. | 12. Cicely. |

sion incident to the fire and are transacting business as usual. Fortunately for them a large importation of goods was detained in quarantine and was thus saved from the ravages of the fire.

Captain Nesbit's "Chumps" and the "Morewyns," as John Westcott's men styled themselves, played a match in the alleys last Thursday evening. The first game was a tie, each side making 799 pins, but in the two succeeding games the "Chumps" were not in it and were defeated finally by over 250 pins. Anderson is getting into his old time form again; last week he put up a game of 232, which we believe is the best score so far this year.

K.

New York.

There are heaps and heaps of roses coming in and the wholesale dealers are badly loaded up every morning. Even the American Beauty is already very abundant and it is not an unusual thing to see a couple of Greeks loaded down with double armfuls of this popular variety. The quality varies, as usual, running from "nubbins" with two inch stems to fine specimens with two foot stems, and the price covers as wide a range as the quality, but the Greeks do not confine themselves to the poor quality any more than

the stores do and the best are none too good for them. Perles are unusually fine in quality. Cusins and Wattervilles are exceedingly abundant, but Meteor is the stock to have just now. This rose sells at sight and brings proportionately the best price. Outdoor stuff and flowers of the cheaper grade are very plenty, especially at the market, where geranium leaves, Japan lilies, dahlias, hydrangeas, etc., are heaped up in great profusion in the early morning. Carnations go lively at high prices.

Most of the wholesale dealers report trade as behind the average for recent years and attribute this to the effects of the cholera scare and the approaching election.

There are a few single violets coming in regularly, but the double ones have not begun yet. According to the predictions of some growers the violet crop for the coming winter presents a discouraging prospect. At Nyack and all along up the Hudson violet growers, with but few exceptions, are loaded with the disease.

Ernst Asmus speaks very highly of carnations Salmon Queen, Creole and Fred Dörner. Salmon Queen is the variety with which E. G. Hill took the cup last year. Creole is a fine very dark flower of good form and comes good all winter. Fred Dörner is a scarlet, not so brilliant

as Portia, but much larger. Mr. Asmus has added four new houses to his establishment this season. Two of them are iron houses by Hitchings.

Robt. B. Young's sale of plants from the Philadelphia growers was a great success. The plants were fine, likewise prices. How W. K. Harris makes his ficus branch is still the great riddle of wonder.

There has been much complaint in Greenwood Cemetery this season regarding the breaking and injury to plants on lots and graves. An article in the *New York World* in regard to the matter is, however, very misleading and deserving of severest censure. It states that the plants are "cut down by thieving florists." For the credit of themselves and the industry in general the local florists should spare no expense or trouble to trace the real culprits and see that they are well punished.

The committee of the New York Florists' Club on the New York state exhibit at the World's Fair have selected Mr. James Dean as chief of the horticultural division. The sum of \$5,000 has already been secured and \$15,000 more is expected by January 1. The whole committee consists of John H. Taylor, chairman, John Young, secretary, and Messrs. Dean, Weathered, Allen and Pierson. The committee is deserving of great credit for accomplishing at such short notice an apparently impossible result. Mr. Dean is by everyone regarded as the right man in the right place. His appointment is a guarantee that the work will be well done. All the florists' clubs throughout the state have been called upon to help to the extent of their power and a telegram has been sent to Chicago asking that the required space be reserved.

Washington.

Washington during the past week looked like a fairy city. The houses along the principal streets, particularly Pennsylvania avenue from the Capitol to Washington Circle, were handsomely decorated with flags, shields and bunting of every description. Electric lights were arranged all along the avenue from Sixth street to Seventeenth street, representing the various corps badges and the Grand Army badge. When lighted at night they made a most gorgeous display. I am told that the decorations, which were in honor of the Encampment of the G. A. R., surpassed anything of the kind ever attempted for them. Some 85,000 old heroes of the late war paraded Pennsylvania avenue last Tuesday, presenting a magnificent display. Noticeable among them, and looking as bright as he did at the last convention, was our good President, Mr. James Dean, who was as brave in the field as he is genial now in company, I have been told by some of his comrades.

Everything is looking bright and fresh about the city. The long drought is a thing of the past and almost daily we are blessed with refreshing showers. The grass which only a few weeks ago was parched is now a beautiful lawn, and vegetation of every kind is refreshed and spring like.

Business among the florists begins to pick up a little. Orders for wedding decorations are coming in. Considerable floral decoration was done for the entertainments given by the various Grand Army Posts of the city, but there was no money in them for the florist; competition was very keen and the funds for that purpose were small, though they were, generally speaking, very good.

The bedding at Arlington National

Cemetery looks remarkably well notwithstanding the long dry spell. The geraniums are one mass of flowers, almost entirely covering the foliage. The tea roses have made a most luxuriant growth and are covered with fine blooms. I am safe in saying that thousands of fine buds could be cut every morning. For outside flowers I have never seen their equal for quality or quantity. I noticed a bed of foliage plants with a ring of *Lantana Californica* for an edging which seemed to attract much attention. This *lantana* is a slow growing one, and with its bright yellow flowers, with a background of *Achyranthes Lindenii*, produced a fine effect. In fact everything gave evidence of the constant care and skill of Mr. D. H. Rhodes, the landscape gardener in charge.

The growers having carnations in this season began to house them several weeks ago, and now have the majority of their plants under glass. They are looking fairly well, though some are complaining of the cut-worm already. He is not slow in getting down to business this season. The rose growers about town have every reason to expect good results from this season's planting. Their plants are looking remarkably fine and healthy, and they are putting up strong healthy shoots from the bottom. The cool weather of late is producing some fine buds, which can be seen both in the florists' stores and the stands in the markets.

C. LESLIE REYNOLDS.

Chicago.

Mr. D. S. Iffron of Washington Heights is doing some little crossing in cannas and helianthus with very gratifying results. He has a promising seedling from *Canna Star of '91* that he thinks of naming *Star of '92*. It is similar in color to *Star of '91*, but the flowers stand more erect and there is less yellow in the heart.

Ernst Wienhoeber & Co. have had their store on Elm street charmingly decorated in pale pink and pale blue. A large mirror at one end, with an effective plant decoration in front, is a striking feature.

Mathias Gebhardt, formerly with Ludwig Moeller of Erfurt, Germany, has arrived in Chicago and is now connected with the World's Fair under Mr. Ulrich.

At the last meeting of the Florist Club the proposed banquet was thoroughly discussed and a committee of five was appointed to arrange for same, the question of exact date and other details being left to the discretion of the committee.

The essay on mushroom growing, read by Mr. J. F. Kidwell, and which appears in full elsewhere in this issue, was well received and freely discussed.

A committee was appointed to take some action regarding the floral decorations of the Illinois state building at the World's Fair at the time of the dedicatory ceremonies next month.

The second meeting of those interested in the organization of a florists' exchange in this city was held at the Sherman House last Saturday. The gentlemen selected to act as commissioners reported that the secretary of state had advised them that the title "Chicago Florists' Exchange" was similar to that of two other corporations and had requested them to select some other title. They had therefore changed the name in their application to the "Chicago Cut Flower Exchange," and had received license to open books of subscription.

After considerable discussion it was decided that for the present at least the

Exchange should undertake no business except that of renting space to those who wished same and not invite orders to be filled by the organization. A motion that only stockholders be permitted to rent space was voted down, it being the sentiment of the majority that the privilege should be open to every one in the trade.

Before adjournment subscriptions were received for a large share of the stock. A meeting of subscribers to stock will be called by the commissioners for about ten days hence, at which directors will be elected. A committee was appointed to look up a suitable location for the Exchange and another committee was requested to prepare a draft of by-laws to present for action at the stockholders' meeting.

There is no change in the flower market since last quotations; the past week has been excessively dull, said to be the quietest week since July. Warm and depressing weather has caused this; with the change to cool bright days business picked up. Most of the outdoor stuff is limited in quantity and weedy in quality. Good calceolarias are still in. *Cosmos* and *chrysanthemums* still hold off; of the latter there are some outdoor pompons and a few early indoor Japanese, but the last named are still poor. Single violets are still in; no doubles are quoted.

Dahlias have greatly improved; they are coming with long stems, better in every way. If there is no sharp frost immediately there will be a fine late crop of these flowers. Sweet peas are only coming in very scantily; they are practically over. Roses are excellent in quality, but during the past week there has been a marked tendency to mildew, which has detracted from the foliage. A very small quantity of indoor carnations have been received, but the outdoor flowers are much better in quality than they were, showing much better stems. Some *Portias* noted had stems as long and clean as those grown indoors, and the market offers fine *Daybreak*, the best light pink carnation here. The Chicago market shows a large increase in the sale of fine carnations, and there is no doubt the popularity of this flower is largely the result of its keeping qualities.

Boston.

The less said about the flower trade in Boston this week the better. It seems to have dropped all to pieces again. Roses of all kinds are extremely plentiful, even carnations are in overstock for the time being.

The garden committee of the Massachusetts Horticultural Society, with a few other gentlemen, visited Marblehead Neck on September 23, by invitation of Mr. C. W. Parker, who wished to show them over the grounds about his summer cottage there. The natural picturesque quality of this rocky promontory and the improvements made by its wealthy summer residents were already understood to a certain extent by the visitors, but they were quite unprepared for the treat which was in store for them. Here was a study in landscape gardening worthy of a visit from every student of that art. Nature had been generous to begin with. Whichever way one looks a charming vista is presented; the open ocean on one hand with the breakers rolling upon the rocks, on the other the beautiful land-locked harbor with its fleet of yachts, and the quaint old town of Marblehead beyond. The irregular surface of the greensward is broken here and there by masses of granite ledge, in the crevices of which the seaside

golden rod (*Solidago sempervirens*) and the beautiful *Aster nova angle* are allowed to cluster at will, and masses of *nasturtiums* and *Ampelopsis Veitchii* fall over the irregular sides. The planting has been done with rare artistic skill and there is perfect harmony with every natural feature. Next season we hope to present some views of this place in the AMERICAN FLORIST.

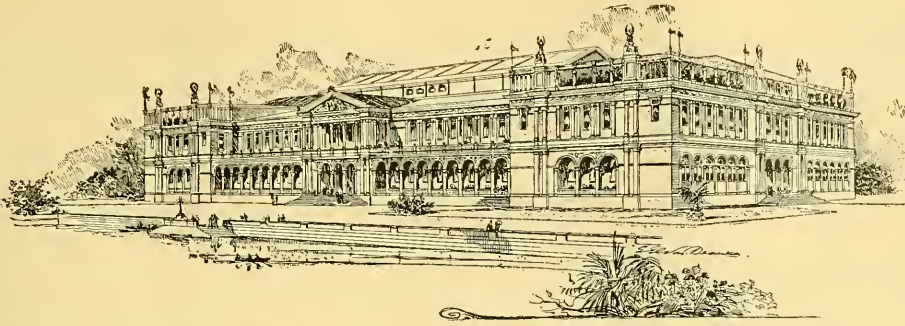
Of course the inevitable provision for the inner man was provided by the host in the shape of a dinner at the Eastern Yacht Club rooms, and seaside appetites were there to do it full justice.

Toronto.

The exhibition is over and probably by this time the people from "way back" have packed their good clothes away till next year. As far as I can learn every one is well satisfied. Certainly it was a good show and a financial success, which is saying a good deal considering its magnitude.

The regular meeting of the Gardeners' and Florists' Association was well attended last Tuesday. A committee was formed to find out the suitable and available plants for the World's Fair and to enquire as to the willingness of the owners to part with them for six months or so. The question was asked, "How would the summer show fare next year with all the best plants out of the city?" "It will give the florists a chance to get in with their small stuff," was the answer. I really think that some of the gardeners will be glad to get rid of some of their big old plants and won't care much if they never get back again. The question box on being opened raised lots of excitement, and amusement, too; such simple looking questions as "What constitutes an exotic fern?" "What constitutes a subtropical bedding plant?" "What constitutes a stove and greenhouse plant?" contain a lot more food for discussion than would appear at first sight. They were ably answered by the members appointed. Mr. Gilchrist and Mr. Carter gave lists of the 24 best herbaceous plants for cutting and for borders; this also raised a good discussion, everybody seeming to have some old favorite to bring forward.

I paid a flying visit to Reservoir Park the other day, and found Mr. Reeves, the superintendent, busy taking things under cover (there has been no frost there yet, but it may come any time now like a thief in the night). The park was looking very pretty and neat in spite of the city having reduced the staff to almost nil owing to lack of funds. The subtropical bedding here is really very fine. Mr. Reeves has attempted more in that line than any one else in this city and has certainly had great success. I never saw plants growing more luxuriantly. In one bed some *Cassia corymbosa* and *Ilabrothamnus elegans* among cannas, ricinus and acahyphas had a very pretty effect. *Anthericum vittatum* var. was used largely for edging. The carpet beds also, including a "Sol's clock," look well in spite of not having been clipped lately. The greenhouses were in a transition state and two weeks at the exhibition has not tended to improve the appearance of some of the best plants, but a lot of *dracenas*, *crotons* and *dieffenbachias* of various sizes were looking especially healthy and vigorous. The *Ficus Parcellii* mentioned in my exhibition notes is worth mentioning again; it is a very striking plant. Mr. Reeves seems to have no trouble in propagating it, as I noticed many small plants.



THE WOMAN'S BUILDING AT THE WORLD'S FAIR.

A large plant of *Ravenala Madagascariensis*, the travellers' tree, was an object of interest as well as of beauty. *Cycas revoluta*, with 79 perfect leaves, is a fine specimen. Chrysanthemums and other flowering stock too numerous to mention are grown to a considerable extent.

This park is the favorite picnicking ground of all the city parks; a deep ravine with banks partly grass and partly brush, a creek with meadow on either side and rustic bridges across, with here and there a gay patch of flowers and foliage, make it an especially desirable spot. E.

Baltimore.

The throngs of fashionably dressed promenaders on Charles and Lexington streets are daily growing in numbers; and business is undoubtedly on the mend.

Buds are arriving in daily increasing quantities, but the demand keeps pace with the supply and the Exchange has posted a notice of an advance of one cent to take effect on the 26th. Dahlias are becoming somewhat of a drug at 50 cents per 100. Carnations are coming in, but of inferior quality and in very small quantity.

Robt. L. Graham has opened an attractive store at 622 Aisquith street, two doors from Gay, just opposite the Wells McGomas monument. It is apparently a well chosen location, and, no doubt, will prove a profitable one. MACK.

Buffalo.

Since convention week our Florist Club has been very active, special meetings every week, and the result is the details of the coming chrysanthemum show are about completed. Our premium list offers nearly \$900 in prizes; \$400 of this amount goes from the funds of the club, the balance being offered in special prizes by lovers of the beautiful and a good few of our own members. This is a great saving to the club, and with the able and economical management already displayed by our officers should result in placing a good balance on the right side of the treasurer's books. Twenty-five cents is to be the price of admission both day and evening; a higher charge was tried last year and proved a failure.

When the Bowling Club quit practice last year there was a good round sum in its treasury, so last Monday it started up again for the winter's games; a good number of the young enthusiasts were there, but the old heads were absent, too busy.

There has been an extraordinary

scarcity of good white flowers, except white roses. A few years ago we used to plant out a few hundred of the old Degraw carnation and after one pinching allow them to run up to flower; by September 1 they would be in full flower, and from 500 plants many thousand fine flowers can be picked up to the 1st of November. Although Degraw is now entirely useless for winter forcing it yet grows finely out of doors, and if it does not there is another variety equally good for the purpose, viz., Silver Spray.

Clubs of the National Republican League held their annual convention here last week. The local "White House," the social headquarters, was finely decorated by Joseph H. Rebstock. Joseph says he had an extraordinary busy week. Prospective October weddings are very numerous and business generally is starting up.

Visitors in town this week were: Mr. Harry Bunyard and Mr. Ingram, representing Hugh Low & Company. Another visitor, come to stay, was a fine son (weight not ascertained), the property of Mr. Louis Neubeck. This event seems to have done Louis a great amount of good; his spirits and energy are greatly revived. G. S.

Worcester, Mass.

We have been having rather hard luck this summer in the weather preceding our shows, as it has rained the day before in nearly every case. The show of September 15 was no exception; we had the worst storm of the season this month; asters, dahlias, etc., were laid flat, and it played havoc with everything. We had a very fair show, however, and it was well patronized, as the end is fast approaching. The display of asters was very large and good, considering the weather, and made a brilliant showing, that was rivaled only by the outflow stands. These were as good as I have ever seen them, F. A. Blake's being especially fine, a vase of the blue *Nymphaea Zanzibarensis* attracting lots of attention. Mr. Blake also showed a vase of *Nelumbium speciosum*, which was rather a novelty here. Dahlias and gladioli made a poor showing on account of the rain, and zonal and geraniums also suffered severely.

The baskets showed great improvement in the amateur class, which was larger than ever. Brierly showed some good pansies, and H. B. Watts took first for best twenty vases of cut flowers. The florists here are a little indignant over

the action of a New York firm who sold a lot of cheap bulbs to a large dry goods syndicate, which is using them as an advertisement. Of course the thing doesn't matter much in itself, as people who are posted at all know that good bulbs cannot be had for the prices they advertise, but it was rather a small piece of business for a firm making any pretensions at all to sell a few rubbishy bulbs to such a concern; I know of two orders that would each have spoilt a hundred that have gone elsewhere in consequence.

Pat Gormley is just finishing a commodious sash house, hasn't room enough for his stuff, he says. Pat is an enthusiast on sash houses. Everybody's roses are looking well, except for a slight dose of mildew, which was almost impossible to keep out. Trade is growing stronger every day.

SEEDLING.

The Woman's Building at the World's Fair.

Directly in front of this building the lagoon takes the form of a bay, about 400 feet in width. From the center of this bay a grand landing and staircase leads to a terrace six feet above the water. Crossing this terrace other staircases give access to the ground four feet above, on which, about 100 feet back, the building is situated. The first terrace is designed in artistic flower beds and low shrubs. The principal facade has an extreme length of 400 feet, the depth of the building being half this distance. Italian renaissance is the style selected. The first story is raised about ten feet from the ground line, and a wide staircase leads to the center pavilion. This pavilion, forming the main triple-arched entrance, with an open colonnade in the second story, is finished with a low pediment enriched with a highly elaborate bas-relief. The corner pavilions have each an open colonnade added above the main cornice. Here are located the Hanging Gardens.

Wayne, Pa.

The first exhibition of the recently organized Wayne Horticultural Society was held on September 15 and 16. The exhibits as well as the attendance surpassed the most sanguine expectations of the officers of the society and seem to indicate for it a successful career.

First prize for general display of plants went to Robert Craig, and for best 24 plants in not over 10-inch pots, to Frank Adelberger. Other exhibitors were John

M. Hughes, who had a choice collection of foliage plants; H. G. Standen, a collection of begonias, etc.; Arthur Lauser, who took first prize for tuberous begonias; C. Fallon, orchids; John G. Gardner, nymphaeas, roses, etc.; John Curwen, Jr., cut flowers and grapes, and others. The Germania orchestra furnished music during the evening. The judges were John Westcott, R. E. Williams and H. F. Michell.

One Way of Preparing a Catalogue.

BY J. HORACE McFARLAND.

[Read before the American Association of Nurserymen.]

Our worthy secretary has given my subject as "One Way to Make a Catalogue." I do not know whether he means to thus indicate that there is but one way to make a catalogue, or that I am the happy possessor of that one way. If he thinks so I differ with him. I had thought that this talk should have been called "The Catalogue Trouble." Most of you who have issued catalogues will readily agree with me that a catalogue is a trouble pretty much all the time, from its inception until the last pages have gone forth, and when your stock is short, a good while after that; and I, who have been concerned in the preparation of many catalogues, can most heartily join in with the chorus, and confess from my standpoint that the catalogue—or, rather, catalogues—are a decided trouble. So are babies, sometimes, but we must have the babies, and we must have the catalogues, and we love them both, with all their faults and for all their bothers. If, then, we are to consider but *one* way to make a catalogue that way should certainly be the right way, and to find that right way let us take up a few of the primary points.

First.—A man who can sell all his stock right from his nursery, or from the trenches on his own ground, to those who come after it and carry it away has but little need of a catalogue. If he needs anything at all of the kind it is merely a price list. The catalogue, then, appeals mostly to those who are at a distance from us; in other words, it is a personal extension, telling by use of printer's ink about our goods to those far beyond the reach of direct personal efforts. This, then, must largely decide the character of our perfect catalogue. We all know that the successful salesman is the man who presents his goods in the most attractive way. I think I have heard it remarked at some time or other within my memory that there is a class of men connected with the nursery trade who are more or less (generally more) successful as salesmen, largely because of their attractive presence, beautiful pictures, delightful fairy tales and general persuasive demeanor. Surely our catalogue should, as far as possible, represent, not the rascally fellow who has brought into disfavor the large class of thoroughly honest tree salesmen, but the man who has good stock to sell and intends that the people whom he approaches should know it and fully appreciate the fact that the time of all times to buy is just when he pulls out his order book.

Now, a catalogue should approach a customer in much the same way as a salesman. It is, in fact, your paper salesman. If your human salesman needs to be clean and well dressed to command respect among the people he appeals to so should your paper salesman. If your traveling salesman should tell the truth about his stock and give good honest advice to his confiding customers so

should your mail agent. Yet who has not seen the catalogue which, for parallel in humanity, should have the dirty tramp whom you would kick from your back yard? Clean dress and attractive appearance is just as necessary in the catalogue as in the salesman. It costs more, to be sure; but I do not see a man before me who could not be thoroughly clothed and protected from the weather with apparel of much less cost than that which now adorns him. Even the red Indian wants adornment, and we have decidedly got past the age when a man's clothes were only protective.

Agreeing, then, that our catalogue must be clean and handsome, we go to a second point, if it can really be called second, and that is that our catalogue should be *correct* in its descriptions, in its classifications, in its recommendations, and in its prices. I am glad to say that in my experience accuracy is deemed of more importance among the nurserymen than among any other of the horticultural trades. The model catalogues of America are nursery catalogues; the seedsmen and florists do not seem to care nearly so much, although there are, of course, some notable exceptions.

In speaking of accuracy, I do not mean simply accuracy of description, but also accuracy of language. There is no reason why a catalogue should violate every rule of Lindley Murray and puzzle the reader with its pigeon-English. There is no reason why a description of a fruit or plant should be made on the cart-before-horse principle. It is just as easy to have it right, and a thousand times better. Further on the matter of correct catalogue construction will be considered in a little closer detail.

Third.—The catalogue should be *systematically arranged*. This is of the utmost importance for good results, and if we expect to hear from our paper salesman we should start him off with a proper introduction and a consistent story to tell all the way through. This does not mean that all articles should be given headings of the same weight; those you wish to sell especially should be shown with every advantage of larger type, greater prominence of position and illustration. But this can be done systematically and agreeably. A man's necktie may be a pronounced feature of his attire without altogether covering up his coat.

Fourth.—This perfect catalogue should be issued *on time*, and that time should be just when the people of the particular section you are striving to reach are ready to consider it. Now, I think I see some smiles at the audacity of a catalogue printer saying anything about being on time. I assure you, gentlemen, there is not in all this broad country a class who are so desperately anxious to be on time as the catalogue printers. They can allege you a thousand and one reasons why they are not, and they are all good reasons, too. If any gentleman wishes to have these reasons in detail I will be glad to give them to him at any time he has a week to spare. A hopeful catalogue printer is never without plenty of good, honest reasons, for it may be said, without any fun intended, that no business on the face of the earth is beset with so many unforeseen contingencies and exasperating delays as this printing business—a business in which no stock can be manufactured ahead to meet the expected demand, but in which everything must be made to order, with probably every man wanting it at the same time, and feeling that he ought to be first.

Fifth.—The ideal catalogue, then, when

it has gone so far as this, ought to be sent out carefully and judiciously, and not sown broadcast as if it were of no value. If it is properly constructed it contains many bits of experience and methods of culture which are of the greatest value, and it can be so handled as to have a positive value in the eyes of its recipient.

Now, with this rather lengthy preface, let us speak of the way to obtain the results desired, starting at the bottom.

First.—When you want to issue a catalogue, begin long enough before the time of its desired appearance. Do not put it off from time to time, until the warning appearance of other catalogues indicates that you are behind your competitors, and then try to pound it out of your printer. Commence a month or two before this; decide what sort of a catalogue you want, how many pages it shall have, what sort of a cover you would like, whether or not it shall be illustrated. Man is an imitative creature, and often the best ideas come from seeing what others have done; so get other catalogues, read them attentively, mark their defects and lay your plans to have no defects (parenthetically, when you have one without defects, please send me a copy by registered mail). It is well, at this stage, to get estimates on the size and style of catalogue you are thinking of from your printer, so that you may know whether you are drifting in the matter of price, and, according to the old chestnut, "Cut your coat according to the cloth." If he has any, you may probably obtain some good ideas from your printer.

Then go at your manuscript. Do not take somebody else's catalogue, change a word here or there, or not at all, and say, "This will do for me." Do, for heaven's sake, avoid jumping bodily into some other fellow's clothes. If you are worth buying of at all, you have some special advantages, or think you have; tell about them in the beginning of your catalogue. It does not matter whether you were established about the time Noah became established on Ararat, or whether you grew up last week; but it is of decided importance to say where you are located, what railroad facilities you have, how you propose to ship, how you want your money (this is awfully important), how you intend to pack, etc. This part of your catalogue, at least, should be original. It is painful to have a customer in Alabama send in a catalogue, the copy of which he has stolen bodily from the issue of a Massachusetts nurseryman, and announce therein that his tea roses are not hardy in his climate, together with other little slips of this kind. If you cannot get up a catalogue which has some little spice about it, get a *wooden* catalogue; that is, one of the stock catalogues which we catalogue printers supply; it may serve until you can construct one suited to your stock and your needs.

In arranging your headings, treat them alphabetically, if you will, or according to their comparative importance. The latter is possibly the better method, and a catalogue of any extent beyond sixteen pages should have a comprehensive index; the alphabetical sequence in the body of the catalogue is not of great moment. It is a good plan, however, to treat the varieties alphabetically whenever you can, unless you have the fruit in the order of their ripening. In describing your ornamental stock, use botanical names altogether as heads, or do not use them; do not let us have a hodge-podge of Latin and English names, so that no uniformity of style can be seen. Very many careful

nurserymen give both English and botanical names, but the best catalogues have one or the other uniformly first.

In your description of varieties seek for brevity, conciseness and accuracy. Do not start in and say that the Big Elephant Apple is "roundish-oblate, a heavy bearer, with a yellow skin, branching freely, of acid flavor, a crooked grower, and ripe in January." Arrange your descriptions logically; take up in any order you please, but say all you have to say about the fruit in regard to color, size, shape, flavor and so on, and then say what you please about the tree the fruit is produced on; do not mix them up. I had a batch of awful examples to hold before you, but it takes a bigger man than I am to stand on people's corns so long at a time, so I will refrain.

In the ideal catalogue there can be but one method of description, and that is the honest method. Many catalogues of the day are not built on this method at all, and yet the people who send them out are apparently successful. I am most happy to say that many of our most brilliant successes have been built on absolute honesty and accuracy of description.

In illustrations, strive for novelty. If you can afford it, have some cuts made of the varieties you particularly want to sell, which are different from the stock cuts usually used. Illustrative processes have become so cheap and perfect that it does not cost a great sum to have plenty of good pictures. Have your tree or plant photographed, or take a "Kodak" of it yourself and you can have a good plate prepared for a comparatively small sum, ready for the printer. Nevertheless, if you feel you cannot afford special illustrations, use those in the general stock; they are decidedly better than none, and, in general, fairly accurate. Indicate to your printer, if he does not know much about nursery catalogues, that the stem looks much better at the top of the page for an apple picture. Amusing instances of cuts upside down have occurred because of differences of opinion in this respect.

But I am overlooking the mechanical operation of preparing manuscript, or "copy," as the printer knows it. Almost every one now knows enough to write or paste on one side of the paper only, but every one does not know how to have his copy most attractive to the printer, and, therefore, of most economical working. I remember a few years ago receiving catalogue copy from a member of this association which had been written and pasted closely to form a long strip—some twenty-five feet of paper—which was then turned up at the bottom, and written on the back all the way down, upside down! It could not be cut apart at all, and had to be all rewritten. The dear man probably thought we had a hose-ree! in the composing room for the handling of his copy.

Use decent paper about the size of foolscap or letter, and leave plenty of margin all around. If you do not use a typewriter, make a special effort to have your manuscript plain, especially in the names. Because you are thoroughly familiar with *Acer dasycarpum*, *Wieria lacinatum*, you must not presume every printer is. Botanical names are a terror to ordinary printers, and the only way to make a sure thing of it, unless you are working with a printer who has his own knowledge of the subject, is to make every letter as plain as print; be sure about it, too. Unfortunately, very many of the trade cannot spell or classify two-thirds of the names of the stock they handle correctly.

While good catalogues and works of reference are so easy of access there is no excuse for this. If you find descriptions that just suit you there is no need for me to advise you not to steal them, or we will say, to clip them; but if you do appropriate do it with the scissors and not with the pen. I have a harrassing remembrance of a good customer who religiously wrote his catalogue copy off every year from end to end. He commenced at the extreme upper left hand corner of his paper and wrote as close as he could to the end of each line, and just as close to the bottom of the page. He carefully omitted all the punctuation which had been inserted in last year's manuscript with much expenditure of time, ink and patience, just as systematically misspelled half the names and avoided the use of any capitals whatever. I hope he is fully prepared for heaven; I am not sure of the calling and election of the poor proof readers and printers who had to work with his manuscript. In his case all he wanted to do was to steal for himself! Printers would far rather have bad print as copy than bad writing for obvious reasons.

Having written or pasted your copy on sheets of uniform size with, if you can so arrange it, about the same amount of matter on each page, number the pages consecutively. If you are not certain as to how you want it arranged when you start off finish each section separately and then assemble and number them. After this is done it is a most excellent plan to note any special directions you have as to the prominence of this or that section, or the importance of one or the other engraving, on the wide margin previously left.

It is a matter of impossibility for the catalogue writer to have any idea as to what his work is going to make in print. It is really not at all difficult. If you keep your manuscript in somewhat uniform shape it is only necessary to count the words on one page and multiply that by the number of pages of manuscript; you have thus obtained about the number of words in the entire work. Any printer can tell you, or you can figure for yourself, about the number of words in a page of the desired type you will use, and this will give you the net type pages you will have. Then, keeping in mind the size of your type page, take account of the illustrations you will have and you can approximate quite accurately to the number of pages you have prepared. Always endeavor to have your work come out in the multiples of sixteen. Nearly all printing is done in sixteen page "forms," as they are called by the printer. If you will take any sheet of paper and fold it three times you will see the reason of this. It takes just as much press work to do four of these sixteen pages as it does for the whole sixteen, and for economical results, therefore, you should keep to sixteen-page sections or forms. The use of cuts to expand renders this easily possible.

Having gotten along thus far, and presumably made your arrangements with the printer for the work, send him the copy—not rolled or folded, but flat, if possible—with a letter giving instructions as to the size and edition of the catalogue, number of pages you estimate it will make and style you desire. If he knows his business he will promptly advise you in case you are not on the right track for good results.

Do not make the mistake of selecting very small type; it pays the printer better and the oculist better, but is an offense to

good taste and a detriment to business. Nothing smaller than minion, or "seven-point," should be permitted in catalogues and the next size larger than that, called brevier, or "eight-point," is better yet. Let me tell a little trade secret right here. Many a printer will show you his nonpareil (a type of which 230 letters go to the square inch if set solid) and tell you it is very pretty set "leaded." The "leading" means the separation of the lines one from the other by a thin strip of metal which does not show in the printing. This is better than the solid type, especially for the printer, as his price for composition is necessarily based upon solid nonpareil. Now, it is a fact that solid minion, the next size larger, takes no more space for the same number of words than leaded nonpareil, while it looks twice as large. I ought not to tell this, possibly, and yet I hate nonpareil type for catalogues sufficiently to disregard the 40 or 50 cents a page extra that the nonpareil leaded plan of composition gives the printer.

If you have time, as you ought to have, it is a very good plan to ask your printer to set up one or two pages in several styles, say one style of your own choosing and one style of his, and submit them before going on with the work. You can then tell how you like it and have your ideas followed.

Make the bargain for the issue of your catalogue on good paper; it is folly to waste ink in these days of cheapness on low grade paper. Because of the inequalities of our postal system you probably will have to consider very carefully the matter of postage if your issue is a large one and paper is not likely to be thick. It can be a good quality all the same and yet not expensive and not heavy. Choose the cover according to your liking; let it be as costly as you care to have it, but let it be in keeping with the inside of the catalogue. I have seen many a catalogue with a fair outside and the inside full of dead men's bones, I was going to say, but I mean dead paper and dead type. If you have a plain, straightforward catalogue without any frills put a neat and chaste cover on it, more or less artistic, according to circumstances and cost. A well designed cover made up from the printer's stock of type is ever so much better than a crude lithograph. Remember that your catalogue is so many pages and costs so much money, and that each page should, in some way or other, bring in its proportion of the cost. This dictum is dangerous sometimes. I well remember sitting up nights with a catalogue man whom you all know to decide on catalogue covers and saw him turn down regretfully a beautiful sketch with a pretty girl's face on it because he was not selling that sort of commodities. His taste was all right, but on a strictly utilitarian basis he compromised on a head of cabbage and a sunflower. Perhaps he was right, but the right principle, before given, can be just as well applied if taken up with the idea that the indirect influence of some parts of the catalogue compensates for their lack of direct selling power. The banana has got to have a skin it seems; you can eat all of a strawberry, but you like the watermelon none the less because you have to throw away the rind.

If your catalogue printer is not thoroughly familiar with the work you want done it is best to have him send you proofs of the work as it progresses. Ask for these proofs to be sent in duplicate, mark your corrections on both sets and return him one promptly. I mean

promptly here with a big P. Let not the sun descend on that day in which you receive catalogue proof and find it still in your possession. It is one of the very best of those thousand and one excuses we printers have—the failure to return proof promptly. In marking corrections on your proof do it in the margin with ink, preferably crossing out the whole word if it is wrong and rewriting opposite in the margin the proper word. Do not write corrections directly in the line with the type; the printer is apt to overlook them. By keeping one set of proofs for reference you not only have a record of the progress of the work, but an evidence, in case of dispute afterwards, as to whether or not you were in fault. The printer has no right to expect you to mark all the typographical errors; that is his business, and if he cannot have his matter reasonably clean, he should promptly follow his natural bent, and saw wood or lay bricks. You should, however, stand good for the prices given in your catalogue, if you have had a proof, because you can comprehend, when you have a proof, the relative prices very much better than any printer or proof-reader.

Remember one thing! that it is a mighty poor time to write your catalogue when you get your proof! This is an expensive lesson for some people to learn. It seems so easy to write in a line here or a paragraph there, or move a cut from one page to another. So it is, on the proof; but remember that each page represents some thousands of bits of metal, and that it takes time at so much per hour to do this moving, and that your printer has a perfect right to expect you to pay for his time. It is better to be a little later in getting the copy in, and to have it in good order, than to have to pay a big pile for alterations, and suffer the delay consequent upon them. It is a common experience to have people say, "I am late with my catalogue, and have not had time to fix it up properly; please do the best you can with it, and send me proof." The feelings of the printer in the busy season, when he gets one of these messes, may be better imagined than described.

If you feel thus weak in the matter of catalogue preparation, the best way is to frankly admit it, and pay your printer or some one else to fix up your manuscript in proper shape. Catalogue work is pretty much like stirring a fire; most every one can do it, and do it better than the man who has the poker; but, as a matter of fact, the art of catalogue preparation is almost as difficult as the art of catalogue printing, and is worthy of quite as much attention to those who expect their catalogues to bring them the business for which they are ready. Remember that you are mostly appealing to people who are not familiar with the stock you sell, and that your story about it cannot be too plain and concise.

Fancy Caladiums in the South.

Having read your article on fancy-leaved caladiums on page 128 of the AMERICAN FLORIST for September 8, allow me to give my ideas. My experience with them is that they stand the hill sun, without any shading, and in the open air; this is especially the case with hold colors. I have used them for bedding plants for many years, and find them both the easiest grown and the cheapest really fine bedding plant grown. They are easily propagated, and can be produced ready to bed out in six weeks to two months. They are also easier kept

through the winter than any other fine plant for summer bedding. All that is necessary is to store them in boxes covered with sand near the hot-water pipes under the benches.

The method employed for propagating the plants is as follows: I put the old tubers in a propagating bed, covered with sand, and rather warm. As soon as they are well started I cut or break off all the sprouts, and put in 2, 3 or 4-inch pots, according to size, always putting a little sand around any cut or wound. They are left in these pots, in a temperature of 60° to 70°; until they are planted out. I have grown tubers weighing one pound or more from these small plants. These caladiums when bedded out will stand any amount of moisture during summer, but will get along with little, and still make a good show. F. J. ULBRICHT, Anneton, Ala.

New Notes.

ST. LOUIS.—Trade is fair and stock good. Beanties are selling for 10 to 15, Albany, Mermets, Brides and La France 4, Meteors 5.

WELLSVILLE, N. Y.—During the past year F. V. R. Stillman & Co. have built four greenhouses, two being rose houses 100x20 each, and have set out twenty acres of small fruits, buying the stock from advertisers in the FLORIST.

COLUMBIA, S. C.—Geo. T. N. Cottam, the New York landscape gardener, is laying out and remodeling the fine estate formerly known as the Preston Library, now the property of H. P. Clarke, Esq. There will be a rosarium, geometrical garden, fine drives, etc.

OAKLAND, CAL.—Mr. McCallum, gardener to Capt. Ainsworth, has attained marked success with his orchids here. A show plant at present is *Odontoglossum grande*, one plant in an 8-inch pot having 21 blooms, all of unusual size. Mr. McCallum has also attained great success with phalenopsis, the equable climate seeming to suit them admirably.

BAY CITY, MICH.—The Bay County Hort. Society has issued an advance premium list for the annual chrysanthemum show to be held next November. In the list received a little over \$1,000 is offered in prizes, and this, it is announced, will later on be increased by the addition of special premiums. Copies of the list may be had on application to the secretary, Mr. T. J. Cooper, Bay City, Mich.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line per week, and no insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—Young man having 5 years' practical experience in greenhouse business, desires position in florist store. Address: H. MITCHELL, 250 E. Cumberland St., Phila.

SITUATION WANTED.—In western city, by a man of great experience; a position as foreman or manager in a commercial florist establishment; best references. Address: S. cure American Florist.

SITUATION WANTED.—As foreman or manager. Roses, carnations, violets, lilies, geraniums and bedding plants; 22 years' experience; single, good references. State wages. D. N., 120 N. Clark St., Chicago.

SITUATION WANTED.—By a florist and gardener. S. can care for horse and cow on private place; nurseries, etc. child; who can cook and do housework. Best of references. Address: W. K. WIGGERSHEAD, 818 N. Warren St., Chicago.

SITUATION WANTED.—By a first-class florist and gardener, sober and reliable; commercial or private place; 20 years' experience in Europe and United States; best of references. Address: L. F. cure American Florist.

SITUATION WANTED.—By married man, age 31, 17 years' experience in the growing of chrysanthemum and greenhouse plants, including orchids. References as to character and ability. Address: J. A. GIBBS, care W. C. Wilson, Astoria, La. L. N. Y.

SITUATION WANTED.—By a young man, single, age 27, on a commercial place; thoroughly understands greenhouse work; strictly sober, honest and studious to the business. References preferred. Address: COMPETENCY, care American Florist.

SITUATION WANTED.—By a young man, single, age 23, on a private or commercial place; thoroughly understands the business; honest, upright and strictly sober; a first-class florist. Address: WAGG, care American Florist, Chicago.

SITUATION WANTED.—Gardener, single, Scotch man, open for first-class position, either private or commercial; 16 years' experience in all branches First-class references. Address: D. S. W., 1012 Avenue C, Park Side, Chicago.

SITUATION WANTED.—As foreman or manager in seed house by first-class, energetic man, thoroughly experienced in all branches; can compile catalogues, etc. For full particulars, address: MANAGER, care American Florist, Chicago.

SITUATION WANTED.—By a single man, age 25, in private or commercial place; 8 years' experience in England and America, under glass. First-class references. State wages. Address: M. ALEXANDER, 40 Bradley St., Watertown, N. Y.

WANTED.—A good all round florist; single man preferred. W. S. SAWYER & Co., Lincoln, Neb.

WANTED.—Second-hand hot water boiler for heating small greenhouses. A. F. MARKEE, Reedsburg, Wis.

WANTED.—Florist to take charge of small commercial place, either as lessee or foreman. Address: T. L. SXYDEH, Danville, Virginia.

WANTED.—To buy a greenhouse business in some good live town. Address: D. G. care American Florist, Chicago.

WANTED.—An honest, sober and industrious cardener to take care of private place in Chicago Glass. Address: S. H., care American Florist.

WANTED.—Gardener who understands heating with dry flues, and can grow a general line of stuff for retail sale. Address: 428 Spruce St., Scranton, Pa.

WANTED.—To lease or buy, 3 or 4 medium greenhouses within 20 miles of New York City. Address, with all particulars, PLANTSMAN, care American Florist.

WANTED.—Man who understands growing ferns, orchids and a full stock on account of death. Answer, stating wages expected. Address: R. J. MENDENHALL, Minneapolis, Minn.

WANTED.—A young man accustomed to greenhouse work; must be strictly sober, and studious to business. Address: J. F. GIBBS, Woodville, Allegheny Co., Pa.

WANTED.—Gardener. Good, steady, sober, competent, willing to work man wanted, to come at once. Let me hear from such a man needing a place at once. W. H. SANFORD, Thomsville, Ga.

WANTED.—In Sacramento, California, a young single man with a full stock on account of death and greenhouse man; must be absolutely reliable. Wages \$80.00 and found, with increase after first six months if satisfactory. Address: BIRD, CROFT & STACY CO., Sacramento, California.

FOR SALE.—Three No. 8 Smith & Lynch lilies in good condition, capable of heating 100 feet of pipe. Address: M. H. CUSHING, Colchester, Mass.

FOR SALE.—Half interest in a good paying business. 10 greenhouses all new; 10,000 feet of glass, in a city of 50,000. For particulars write: F. D. B., care American Florist, Chicago.

FOR SALE OR LEASE.—Old established florist plant business, 7 greenhouses, inside Chicago limits, city water, good location. A bargain. Address: H., care American Florist, Chicago.

FOR SALE.—A well established florist business, six greenhouses and a full stock on account of death. 10 years' lease on land; only 20 minutes from flower market. For further particulars inquire of: Miss. care Lark, 250 E. Cumberland St., Phila., N. Y.

FOR SALE.—All or part interest in an old established florist business in Chicago. Plant totals of 11 new houses; 20,000 square feet under glass. Have just rebuilt. Houses all filled with new stock; 5 acres of ground; retail store in city with good lease and location. Address: G. H., care American Florist.

FOR SALE.—At a bargain, a well established florist business in a western city of 10,000 inhabitants. 400 feet of glass; 10,000 plants of all kinds; electric lighted, steam heated, in good repair; trade mostly cut flower work, good paying trade. Must be sold on account of illness. Address: A. B. C., care American Florist.

FOR SALE.—Nine greenhouses containing about 100,000 feet of glass, stocked with carnations and tented by steam; primary 30 feet long just coming into bearing, recently sold; 30,000 plants of all kinds; electric light; large house containing 15 rooms, new barn; within 25 miles of Philadelphia and one mile from station. Will be sold on account of ill health. Possession any time. Address: ISAAC LARKIN, Tunkhannoon, Chester Co., Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate:
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent,
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
Florist is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Boston, Oct. 1-6—Annual exhibition fruits and
vegetables, Mass. Hort. Society.
New York, Nov. 1-7—Chrysanthemum show, New
York Florists' Club. Wm. Plumb, mgr. of
exhibition, Madison Square Garden.
Philadelphia, Nov. 7-11—Chrysanthemum show,
Pennsylvania Hort. Society. D. D. L. Parson,
Sec'y, Horticultural Hall, Broad St.
Galt, Ont., Nov. 8-9—Chrysanthemum show Galt
Hort. Society. Edward Lane, Sec'y.
Toronto, Ont., Nov. 8-10—Chrysanthemum show,
Toronto Gardeners' and Florists' Association.
A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 8-10—Chrysanthemum show,
St. Louis Florists' Club. Emile Schray, sec'y,
4101 Pennsylvania Ave.
Hartford, Conn., Nov. 8-10—Chrysanthemum
show, Hartford County Hort. Society. Julian S.
Allen, Sec'y.
Boston, Nov. 8-11—Chrysanthemum show, Mass.
Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 8-10—Chrysanthemum show, Hort.
Society of Chicago. G. L. Grant, Sec'y, 322
Dearborn St.
Milwaukee, Wis., Nov. 8-11—Chrysanthemum
show Wisconsin Florists' and Gardener's Club.
A. W. Bennett, Sec'y, 108 Wisconsin St.
Minneapolis, Minn., Nov. 8-11—Chrysanthemum
show Minneapolis Florists' Club. E. Nagel,
Sec'y, 118 W. Lake St.
Worcester, Mass., Nov. 9-10—Chrysanthemum
show, Worcester Hort. Society. E. W. Livola,
Sec'y.
Montreal, Nov. 9-11—Chrysanthemum show
Montreal Gardeners' and Florists' Club. H.
Stocking, Sec'y, 230 St. D-nis St.
London, Ont., Nov. 9-11—Chrysanthemum show
London Gardeners' and Florists' Society. Wm.
Gammage, Sec'y.
Washington, Nov. 15-17—Chrysanthemum show
Washington Florists' Club. G. W. Oliver,
Sec'y, 184 5th St. N. W.
Baltimore, Nov. 15-18—Chrysanthemum show,
Gardeners' Club of Baltimore. J. J. Perry,
Sec'y, 221 N. Liberty St.
Indianapolis, Nov. 15-18—Chrysanthemum show,
Society of Indiana Florists. Wm. G. Berter-
mann, Sec'y, 37 Massachusetts Ave., Indiana-
polis.
Pittsburg, Pa., Nov. 15-19—Chrysanthemum show,
Pittsburg and Allegheny Florists' and Garden-
ers' Club. G. Oesterle, Sec'y, 4200 Forbes St.,
Pittsburg.
Cincinnati, Nov. — Chrysanthemum show,
Cincinnati Florists' Society. E. G. Gillett,
Sec'y, 136 Walnut St.
Pittsfield, Mass., Nov. — Chrysanthemum
show, Berkshire County Gardeners' and Flor-
ists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. — Chrysanthemum show,
Erie Chrysanthemum and N. W. Penna. Hort.
Society. H. Tong, Sec'y.
Bay City, Mich., Nov. — Chrysanthemum
show Bay County Hort. Society. T. J. Cooper,
Sec'y.
Pittsfield, Mass., Nov. — Chrysanthemum
show Berkshire County Gardeners' and Flo-
rists' Club. A. H. Meredith, Sec'y.
Providence, R. I., Nov. — Chrysanthemum
show R. I. Hort. Society. C. W. Smith, Sec'y,
55 Westminster St.

"GARDEN DESIGN AND ARCHITECTS' GARDENS."

Under this title Mr. Wm. Robinson of
the London *Garden* publishes in book
form two reviews, first printed in the
Garden. The unfortunates who have
aroused Mr. Robinson's ire are the
authors of *The Formal Garden in Eng-
land* and *Garden Craft, Old and New*.
The authors of both these books are to-
tally ignorant of gardening practically or
theoretically; this they frankly avow, and
it is their idea that the garden effects
should be totally subjugated by bricks and

**CYCLAMEN FLOWERS**

will sell it they are good. CYCLAMEN plants also. The giganteum strain is the only one worth growing if you grow for sale, and there are strains and strains of the giganteum also. It is not how cheap, but how good! Remember that! Gardiner's strain of giganteum comes high; but it's worth the difference. Sow at once for next winter's flowering. \$2.00 per 100 seeds. \$8.00 for 500 seeds; \$15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Street, PHILADELPHIA, PA.

See Our trade list of choice Flower Seeds free.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

mortar. As the authors of *The Formal Garden* gracefully observe, "the horticulturist and the gardener are indispensable, but they should work under control, and they stand in the same relation to the designer as the artist's colorman does to the painter, or perhaps it would be fairer to say, as the builder and his workmen stand to the architect." The same brilliant authority declares it is flying in the face of Nature to fill our gardens with tropical plants, instancing the yucca, which, they say, may be all very well in its own country, but is out of character amid the modest foliage of English trees. Quoting this, Mr. Robinson says: "A passage full of nonsense! The true use and first reason of a garden is to keep and grow for us plants *not* in our woods and mostly from other countries than our own." In this country, where sub-tropical bedding is growing so rapidly in favor, we shall certainly endorse Mr. Robinson's animadversions upon these stupid formalists, who appear to look upon plants from a purely brick and mortar standpoint.

The second book reviewed, *Garden Craft, Old and New*, is written by a gentleman who frankly declares he knows nothing of gardening, while he displays his knowledge of aesthetics by a warm defense of "vegetable sculpture" and such monstrosities.

GARDENING is the name of a new publication that has reached our table, and the fact that it is edited by our old and valued correspondent, Mr. Wm. Falconer, is alone sufficient to make it very welcome. Though intended to appeal mainly to amateurs in gardening, florists will find in it a great deal of value to them. The articles are very pointed and practical, written in an exceedingly pleasant style, and the illustrations are of unusual excellence. There is certainly a place for such a bright and instructive paper, covering the whole field of gardening as this does, and we predict a warm welcome for our young contemporary. It is published semi-monthly at \$1 a year by The Gardening Company, Chicago.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

CUT FLOWERS,

Wholesale Only.

ASPARAGUS PLUMOSUS
always on hand.

WISCONSIN FLOWER EXCHANGE.

131 Mason St. MILWAUKEE, WIS.

HARDY CUT FERNS

MOSS (SPHAGNUM AND
GREEN SHEET.

A 1 IVY LEAVES.

BOUQUET GREEN and FESTOONING of
all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Place. BOSTON, MASS.

Ficus Elastica.

Extra strong plants, 6-inch pots,
\$50.00 per hundred.

ANDORRA NURSERIES,

Wm. Warner Harper, CHESTNUT HILL, PHILA., PA.
MANAGER.**SAM'L HENSHAW,
Landscape Gardener**

West Brighton, Staten Island, N. Y.

New grounds laid out and old ones remodeled.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNACTIONS and 25 VARIETIES CLEMATIS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnation.

ALEX. McBRIDE, Alplaus, N. Y.

**OUR NEW TRADE
DIRECTORY**

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

Please mention The American Florist every time you write any of the advertisers on this page.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS., WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL, Wholesale Florist and Dealer in FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO.

Store Closes Nights 9 P. M.: Sunday 2 P. M.

McKELLAR & SPERRY, WHOLESALE Cut Flowers & Florists' Supplies

128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.
Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON,* Wholesale FLORIST,

66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WELCH BROS., Wholesale Florists, NO. 2 BEACON STREET, Near Tremont St. BOSTON, MASS.

GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Parker House), BOSTON, MASS. Orders by Mail, Telegraph, Telephone or Express promptly filled.

DAN'L B. LONG, COMMISSION • FLORIST, 495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms &c. on application

O. A. RUEHN, (Successor to E. J. & S. RUEHN), WHOLESALE FLORIST, 1125 PINE STREET, St. Louis, Mo. A complete line of Wire Designs.

Wholesale Markets.

Cut Flowers.	
NEW YORK, Sept. 27.	
Roses, Perles, Sunsets, Gontiers.....	1.00@2.00
" Mermets, Brides, Niphotos.....	2.00@3.00
" Watteville's, Roses, Bonnets.....	2.00@3.00
" La France, Albany.....	2.00@4.00
" Beauty.....	2.00@4.00
Carnations.....	5.00@25.00
Valley.....	5.00@25.00
Adiantums.....	1.00
Smilax.....	12.00@15.00
Asparagus.....	50.00
BOSTON, Sept. 27.	
Roses, Niphotos, Gontier.....	2.00@3.00
" Bride, Mermet, Wootton.....	2.00@4.00
" La France, Meteor.....	4.00@6.00
" Perle, Sunset.....	2.00@4.00
" Beauty.....	15.00@25.00
Carnations.....	1.50@2.50
Adiantums.....	1.00@1.50
Valley.....	4.00
Tuberose.....	5.00@7.50
Gladioli.....	2.00@4.00
Hydrangeas.....	3.00@4.00
Japan Lilies (album).....	2.00
Asparagus.....	4.00
Adiantum.....	50.00
Smilax.....	1.00
PHILADELPHIA, Sept. 27.	
Roses, Beauties.....	12.50
" La France, Albany, Mermet, Bride.....	3.00
" Pierre Guillot.....	3.00@4.00
" Marie Guillot, Perle, Niphotos.....	2.00@3.00
Valley.....	4.00
Carnations.....	1.00
Adiantum.....	7.00
Tuberose.....	2.50@3.00
Single violets (bunches).....	3.00
Asparagus.....	15.00@25.00
Adiantums.....	1.00
CHICAGO, Sept. 27.	
Assorted roses.....	3.00@4.00
Am. Beauty.....	5.00@12.00
Carnations.....	1.00@1.50
Bonvardia.....	1.75
Chrysanthemums.....	2.00@3.00
Smilax.....	15.00
Asparagus.....	50.00
Gladioli.....	1.00@5.00

Peck & Sutherland, Successors to WM. J. STEWART,

Cut Flowers and Florists' Supplies — WHOLESALE —

67 Broadway Street, BOSTON, MASS.

N. F. MCCARTHY & CO.

Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

H. L. SUNDERBRUCH, WHOLESALE FLORIST 4TH & WALNUT STREETS, Cincinnati, O.

SMITH, The Florist, GROWER OF

Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
J. E. BONSALE & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,

49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN, — WHOLESALE — FLORIST, 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY, WHOLESALE DEALERS IN CUT FLOWERS

51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART, WHOLESALE FLORIST 117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S, — WHOLESALE — FLORIST, 111 WEST 30TH STREET, NEW YORK CITY.

WHOLESALE FLORISTS * La Roche & Stahl N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

Mention American Florist.

SAMUEL S. PENNOCK, Wholesale Florist 38 S 16th Street, Philadelphia, Pa.

WM. ELLISON,* (Late of ELLISON & KUEHN), WHOLESALE FLORIST, AND FLORISTS' SUPPLIES, 1402 PINE ST., ST. LOUIS, MO.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

Annual Rape.

A difficulty has arisen in more sections of America and Canada with reference to rape seed supplied during the spring of the present year. The plant has in many cases run to seed instead of producing its usual abundant crop of herbage, and has consequently upset the calculations of those farmers who relied upon it to provide some useful sheep feed during the present fall.

A writer in one of the stock feeders' papers asserts that the seedsmen have either wilfully or ignorantly supplied the wrong article, and have sent German or annual rape in place of the dwarf Essex variety, which is a biennial plant. This statement, however, is a grave and mischievous error, as the plants when growing side by side are entirely distinct. The two kinds of seed are also quite distinct, the German rape being a small seed of a reddish black color, while the Essex rape is a large black seed very similar to rutabaga. The former seed is used only for birds, while the latter is very seldom used in this country for that purpose.

Whether the rape which has caused the difficulty is a sub-variety not hitherto known, or whether the peculiar season we have had has caused the plants to run to seed, is a matter now being investigated and will be reported on more fully later. In the meantime seedsmen who have this difficulty to face should advise their farmer friends either to feed it at once or plow it under for manure, for which purpose it is eminently suitable. On no account should it be allowed to seed in the field, since in that case the seed may remain dormant for many years and poison the field for future crops.

S. B. DICKS.

CONSERVATIVE ESTIMATES concerning the onion seed crop of 1892 summarize about as follows: Connecticut crop good. California crop reported not to be as good as expected, but the fact must be taken into consideration that early in the season they expected the largest crop ever had and even a partial failure would still leave the crop a good one. There will therefore be enough onion seed in the country to supply the demand.

COLUMBUS, O.—A. W. Livingston's Sons, seedsmen, claim that their gardens were injured by the construction of a sewer, and have brought suit for damages against the owner of the land, contractor and the city.

ROCHESTER, N. Y.—The James Vick's Sons seed company is considering the establishment of a large horticultural plant at Fairport, Monroe county.

PHILADELPHIA, SEPT. 20.—Robert Buist, Jr., represents early seed orders for fall and winter shipments as considerably in advance of former seasons.

F. C. HUNTINGTON of Indianapolis is still in poor health.

Always mention the AMERICAN FLORIST when writing to advertisers.

Bermuda Easter Lily Bulbs.

(LILIUM HARRISII.)

50,000 Extra Quality Bulbs from 7 to 9 inches in circumference.

CASE OF 250 BULBS, \$13.50; Per 100, \$5.50; Per 1000, \$50.

. . . . SPECIAL PRICES ON

Hyacinths, Tulips and other Dutch Bulbs.

BUIST'S SEED & BULB WAREHOUSE,

No. 922 & 924 Market Street, PHILADELPHIA, PA.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILIUM HARRISII AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS.

114 Chambers Street, NEW YORK.

Illustrated Catalogue on application.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

G. J. MOFFATT,
PAPER BAGS AND ENVELOPES

Manufacturer of

Special attention given to
Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Mention American Florist.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000..... 72.50

50,000..... 337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPPED.

BEST HAMBURG TIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

Mention American Florist.

BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Altona, Hamburg, CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.



MONEY FOR EVERY FLORIST.

And enough made to CLEAR COAL BILLS AND PAY FOR REPAIRS BY GROWING MUSHROOMS under your greenhouse benches.

WHAT ONE WHO HAS TRIED IT HAS TO SAY.

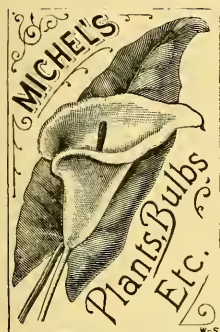
Chicago, September 3, '92.
W. W. Barnard & Co.—Please send me 150 lbs. of English Mushroom Spawn as soon as fall importation arrives. Your spawn has paid me well last season.
John F. Kidwell, 3810 Wentworth Avenue.

A LARGE IMPORTATION OF FRESH STOCK JUST ARRIVED. ENGLISH MUSHROOM SPAWN,

Per pound, 15c.; 10 pounds, \$1.25; 100 pounds, \$8.00.
BOOK ON MUSHROOM CULTURE, 75 CTS.

W. W. BARNARD & CO.,
Growers and Importers of Florist Bulbs and Flower Seeds,
6 and 8 North Clark Street, CHICAGO.

Headquarters for Fertilizers. Every bag warranted pure.



Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

HARDY PERENNIALS.

NOW is the best time to plant them. Following are some of the most beautiful and useful for florists' purposes, at prices that defy competition.

EACH.	EACH.
Achillea "The Pearl"..... 5 cts.	Iris Siberica sanguinea..... 10 cts.
Coreopsis lanceolata..... 8 cts.	Gypsophilla paniculata..... 12 cts.
Gaillardia grandiflora..... 10 cts.	Helianthus Maximilianii..... 12 cts.
Delphinium sinensis in variety... 12 cts.	Helianthus rigidus semiplenus. 12 cts.
Phlox "The Pearl"..... 10 cts.	Pyrethrum uliginosum..... 12 cts.
Iris Germanica in variety..... 3 cts.	Salvia pratensis..... 12 cts.

For other varieties of the most extensive collection in America, see our full trade catalogue. The above prices are for quantities not less than 25 of each variety.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

CYCLAMEN PERSICUM GIGANTEUM

3-inch pots, showing bud, \$8.00 per 100.

CARNATIONS, Field grown.

LAZZIE MCGOWAN, MRS. FISHER, PORTIA

J. J. HARRISON, and others. Price \$7 per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.
A general assortment of Fruit Tree Stocks such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere, agents for U. S. America and Canada.
C. C. ABEL & CO., P. O. Box 920, New York.

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,
56 N. 4th St., Philadelphia, Pa.

Hoffman Nurseries.

We offer strong field grown plants of

Per 100
Hinze's White Carnations..... \$ 5.00
Marie Louise Violets..... 4.00
Bouvardia, from 4-inch pots, mostly
Alfred Neuner, double white..... 8.00

We also offer a large stock of

Hardy Perennials, Roses, Ornamental Shrubs and general nursery stock.

Send list of wants for prices and varieties.

E. M. & H. N. HOFFMAN,
Elmira, N. Y.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E. NEW YORK.



TRY **DREER'S**

GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Bulbs.

Per 1000
Roman Hyacinths, white, 11 to 12 cms. . . \$15.00
Narcissus, Double Roman . . . 10.00
Narcissus Poeticus . . . 4.50
Scilla Siberica, extra large . . . 6.50
Lilium Candidum, very fine . . . 27.50
Calla Nana compacta, California grown, dry bulbs, per 100 \$15.00.
A full line of Hyacinths, Tulips, and other Dutch Bulbs.
Bonquet Green in stock.

J. C. VAUGHAN,
NEW YORK. CHICAGO.

PANSY PLANTS.

The Jennings strain of large flowering Fancy Pansies now ready. 300,000 sold in 191. Fine for winter blooming, and for spring sales there is no better in the market. Price by mail 68c. per 100, \$5.00 per 1000, \$30.00; any quantity you want up to December 15, plants any size wanted. Send in your order early, as there is a big demand for these Pansies. Seed of this strain \$1 per trade packet of 2000 seeds, ounce \$6.00.

E. B. JENNINGS,

CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

PANSIES.

New crop of Vautier's Mammoth Pansy Seed now ready. For mammoth size, beauty and perfect form they rival anything heretofore offered. Colors are rich and varied; plants bushy and compact. The superb colors and immense size have placed Vautier's seed at the head. We guarantee this seed to be the finest ever offered. Small packet, 25c.; trade packet, \$1.00; 1/4 ounce, \$1.25; ounce, \$5.00.

H. G. FAUST & CO., Seedsmen,

64 and 66 N. Front Street, PHILADELPHIA, PA.

PANSIES. Want room and money. To clean out surplus stock of strong, stocky plants from best market strains, will sell about 3000 at 50c. per 100 or \$1 per 1000; in 200 lots at \$2.50 per 100. Also several thousand Bulls Perennials Longfellow and Snowball 30c. per 100, \$2.50 per 1000. Cash with order.

H. Collough, Mt. Pleasant, Iowa.

Chrysanthemum, Carnation and Orchid EXHIBITION

UNDER THE AUSPICES OF THE

Bay County Horticultural Society, of Bay City, Mich.,
TO BE HELD IN NOVEMBER, 1892.

PRIZES, SO FAR AS ARRANGED, \$1,028.50.

SEND FOR PRIZE LIST.

JOHN IRVINE, PRES. T. J. COOPER, SEC'Y.

CLASS 1. Chrysanthemums—Cut Blooms.

Open to all outside Bay County. First. Second. Third.

1—Best 100 long stem cut blooms, 20 varieties, five of each.....\$150.00 \$50.00 \$25.00

CLASS 2. Chrysanthemums—Cut Blooms.

Open to all.

1—Best Seedling, any color, never before exhibited.....\$25.00

CLASS 3. Orchids.

1—Best display of Orchid plants in bloom.....\$150.00 \$50.00
2—Best display of cut blooms.....25.00 10.00

CLASS 4. Carnations.

1—Best 125 long stem cut blooms, five varieties, 25 of each.....\$ 50.00 \$20.00

C. C. Abel & Company

P. O. Box 920, NEW YORK.

FLORIST'S, NURSERYMEN'S AND SEEDS-
MEN'S AGENTS.

For the following—

WELL KNOWN AND RELIABLE HOUSES,
For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seeds-
man, Haarlem, Holland. Choice Dutch
Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen,
Ussy, France. Roses, Fruit and Forest
stocks.

V. LEMOINE & SONS, Florists, Nancy,
France. New varieties of Plants and Bulbs a
specialty, etc.

ERNST REMSCHNEIDER, Florist and Seeds-
man, Altona, Germany. Berlin Lily of the
Valley a specialty.

THE TOTTENHAM NURSERIES, Ltd'd,
Dedensvaart, Netherlands. Managing Di-
rectors: A. M. C. Jongkindt Coninck, A. M. C.
Vander Elst.

EDW. VAN COPPENOLLE, Nurseryman,
Ghent, Belgium. Established 1850. Large cul-
ture of Arbutus, Azaleas, Indica and Molins,
Bay Trees, Begonias, Gloxinias, Palms, Rhododen-
drons, etc., etc.

ALPHONSE ROCHE, Orléans, France.
Extensive and special plantation of Immortelles,
and dyed in all colors and shades.

Catalogues (mention which) free on application
when received for dollars in Yokohama. freight to
All orders for these houses should be plainly
written and addressed to us.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell
for cash, and freight prepaid in Yokohama,
to every one who will favor him with an
order. Catalogues on application.

The freight has to be paid in U. S. gold
exchange; the goods are, however, paid for
in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents
Mexican silver dollars in Yokohama, freight to
San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex.
" " 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 8-inch pot.
RHAPIS FLABELLIFORMIS, 25 cts. per shoot.
For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across,
\$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.
PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

GROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

GALLA BULBS, flowering size, \$5 per 100.

“ “ to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

JOHN IRVINE CO.,

Bay City, Mich.

ASTILBE JAPONICA VAR. GRANDIFLORA.

“THE PEER AMONG FORCING PLANTS.”

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. “The latest blooming and most fragrant of its family”

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) THE READING NURSERY,
JACOB W. MANNING, Proprietor. READING, MASS.
Mention American Florist

Association “Flora” NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from Novem-
ber until May.

ADDRESS P. OUWERKERK

P. O. Box 1845. NEW YORK.

Always mention the AMERICAN FLO-
RIST when writing to advertisers

SEEDLING

PEACH PITS

\$2.00 per 100 pounds.

\$35.00 per ton.

CASH WITH ORDER. . .

COX SEED AND PLANT CO.,

411-415 SANSOME STREET,
SAN FRANCISCO, CAL.

The Color of the Niphotos Rose.

I read with much interest the article by F. Schuyler Mathews regarding the color of Jacq and Niphotos roses. I think in describing the color of the Niphotos, the writer lost one thing entirely. The Niphotos has, at least with me, a decided pink tinge over the tips of the petals. It is thus not only accidentally or occasionally, but regularly, both indoors and out. I have noticed this characteristic with buds grown from plants received from various places as Niphotos. If I am mistaken, and have not the Niphotos proper I would like to be informed of the fact, and have my rose renamed. The shape is decidedly Niphotos. Please let me hear from others on the subject.

Anniston, Ala. F. J. ULBRICHT.

[The blush tint on the outer petals of Niphotos, of which our correspondent writes, is often very marked especially during the dark days of winter. Nor is it confined entirely to the outer petals, being at times distinct in the very heart of the flower.]

The Influence of Saratoga Water.

A voracious individual who signs himself C. S. W., Saratoga Springs, writes to the New York Tribune regarding the origin of the Yellow Harrison rose, which he says "appeared in the time of President Harrison's grandfather, and was produced by grafting a wild rose upon a barberry stock." How delightful!

Do YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIAM HARRISII and BULBS for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1864. Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

— Exporters, Importers and Growers of —

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

SWEET PEA SEED.—SPECIAL TO THE TRADE.

Orders are solicited for Fall Delivery, in quantity, of this season's crop of the choice Sweet Pea varieties, named and mixed, that we grow. Please send for trade list.

MARIE LOUISE VIOLETS, strong runners, free from disease, \$20.00 per 1000. Smilax Seed, per oz. 30 cents; per lb. \$3.00. Lily of the Valley Pips, selected three year old crowns of the true large flowered variety, from consignment due in November, ex-steamers wharf at New York, per case of 2,500, \$10.00.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

TUBEROUS BEGONIAS.

The most reliable quality, the largest tubers and the best strain, at very moderate rates, are those grown by

JOHN R. BOX,

Who has made a Specialty of Begonias for the last 15 years, and was for 10 years the "Co." in John Laing & Co. :

TUBERS of Singles and Doubles in mixed or separate colors.
SEED of Singles and Doubles in mixed or separate colors.

Special Wholesale Price List on application. Special Estimate for large orders by return mail. Every attention to careful shipment. And remember that the quality is a trifle better than you can buy elsewhere. You want the best, I believe. Don't delay with a trial order to

JOHN R. BOX, ^{TRADE} Begonia Grower, CROYDON, ENGLAND.

. YOU WILL ALL WANT THE .

SNOW GREST DAISY

Now in the time to put them in for Christmas blooming.

The most enterprising in the trade are taking hold of it. The 25,000 nearly all gone. Don't forget that we are headquarters and owners of the ORIGINAL PLANT and have the largest stock in the world and offer them now 12 for \$1.00. Sample plant with bloom for 12 3c. or 6c. stamps, post free; 100 for \$5.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy Seed and realize all that can be desired in the Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/2-oz. \$1.60; 1/4-oz. \$3.00; ounce \$5.00.

New Crop Mammoth Verbena Seed in fine mixture; plenty of white; finest crimson and richest purples, with all the intermediate colors, in packets of 1000, seeds 60c; 5000 for \$2.25, while they last.

Also the beautiful Sweet-Scented and novel Dakota Primrose 10c King 100 seeds 25c.

Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

Mammoth Pansies.

From the most celebrated strains of Europe and America.

\$5.00 PER 1,000.

Address J. G. BURROW,
FISHKILL, N. Y.

Mention American Florist.

Azalea Indica.

Tremendous stock of large plants specially grown in pots for forcing and exportation.

For prices and particulars, apply to

EDW. PYNAERT, Nurseryman,

GHEENT, BELGIUM.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77. UPPER SANDUSKY, O.

8c. EACH
FIELD GROW MUMS.

L. Canning, MME. Lean, Gorgeous, Pres. Hyde, Mrs. Gilmore, H. Cannel, R. Brett, Puritan, Elaine, Mrs. T. A. Edison, Gloriosum, Marvel, L. B. Dana, October Beauty, Flora McDonald, Fleur Parfait, Pres. Arthur, W. W. Coles, Mrs. Hardy, Shasta.

Also some large PARIS DAISIES at same price.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

Palms and Dracenas.

LARGEST STOCK IN THE WEST.

From \$6.00 to \$75.00 per 100.

Specimens, \$1, \$5, \$10 and \$15 each.

Send for new wholesale list and descriptive catalogue.

W. J. HESSER, Plattsmouth, Neb.

GARDENING

Edited by WILLIAM FALCONER, and published twice a month at \$1.00 a year, by the GARDENING CO., Chicago, is a plain, practical paper, in plain language, gotten up with the view of aiding every one who is interested in a garden, more especially the amateur.

It recognizes the multitude of people who have small gardens, or who wish to have them, who love beautiful flowers, or trees, or shrubs, or other plants, or good fruits and vegetables.

The editorial management of the paper is conducted in an absolutely untrammelled, straightforward and disinterested manner. We do not sell plants, flowers, seeds, fruits, vegetables, or any other horticultural commodity, and are not personally interested in the sale of any of them; therefore our teachings and opinions are reliable, perfectly independent and unbiased. The editor is a life-long, practical horticulturist, and he has secured the co-operation of a staff of specialists in the several branches of gardening.

Mr. Dana's great Dosoris Gardens, on Long Island, of which the editor is superintendent, are a prominent factor in the teachings of the paper. They comprise some fifty acres solely devoted to ornamental and useful gardening, and include an inimitable collection of hardy trees, shrubs, vines, and other decorative plants, together with green-houses and vineyards, orchard and other fruits, and the most extensive vegetable garden, so far as variety is concerned, in the country. And novelties as soon as they are disseminated are obtained and tested.

In connection with any other gardening paper there is no experimental garden in the world to compare with the Dosoris Gardens, and our readers have the full and unrestricted benefit of the information suggested or confirmed by the practice, tests and experiments as conducted in these gardens.

Every reader of the AMERICAN FLORIST should subscribe, and will make no mistake in recommending GARDENING to customers who wish a good gardening paper suited to their needs.

ONE DOLLAR A YEAR—24 NUMBERS.

THE GARDENING COMPANY, MONON BUILDING, CHICAGO.

We are the People!
Who? KOFFMAN,
Where? WALDEN,
Orange Co., N. Y.

What? SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also *Adiantum Cuneatum Fronds*

At \$1.25 per 100.

And he pays the Express.

BOUVARDIA.

EXTRA STRONG FIELD GROWN PLANTS.

Double and single, pink and white and single red, 75 cts. per dozen; \$4.00 per 100. Order quick before they are gone.

HARRY CHAAPEL,
WILLIAMSPORT, PA.

VIOLETS

MARIE LOUISE.

Strong and healthy, \$7.00 per hundred; \$65.00 per thousand.

ANDREW WASHBURN,
BLOOMINGTON, ILL.

SMILAX PLANTS

in 2-inch pots, \$2.00 per hundred.

HENRY MUNDT, OAK PARK, ILL.



Fancy.

Dagger.

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a Specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

A FEW REMARKS

ON THE SUBJECT OF CLEAR CYPRESS MATERIAL.

CLEAR CYPRESS has been proved by long experience to be the best wood for greenhouse construction.

WHEN BUILDING you want the best and only the best.

I HAVE BUILT GREENHOUSES FOR YEARS, but have advertised this branch of my business only three months past.

EXPERIENCE COUNTS, and I have shipped houses to all parts of the country from Maine to Texas.

CARRY A STOCK OF CYPRESS ON HAND AT ALL TIMES, and can furnish you with sash bars or ventilating sash of any size.

I DO NOT WANT THE EARTH, but am satisfied with a reasonable profit.

Write for Estimates and Prices.

LYMAN FELHEIM,
Erie, Pa.

Mention American Florist.

Say, Look Here!

* * * *



YOU
Find the Powder,
SCOLLAY
Sends the
GUN

By Mail for \$1.25.

All florists and amateurs should try the newly invented rubber
Insect Powder Bulb.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Please mention American Florist.

2,000 POUNDS BROMUS

FOR SALE

at 20 cents per pound C. O. D.

THEO. SPADING, New Buffalo, Mich.

An Unfortunate Deal.

In recent numbers of the AMERICAN FLORIST, appeared an advertisement by a florist near Boston, for a good, honest man, able to make up, etc. Upon applying for the same, from Garrisons, N. Y., enclosing my references, I received a letter from the party, stating the kind of man required, size of place, etc., closing with these words: "Walter, if the position will suit you, let me know how soon you can come." I immediately gave notice to my employer and wrote to the party saying, "I will be with you not later than the 5th or 6th of September. Hoping the date may prove satisfactory, I am etc."

The last letter was written by me upon the 25th of August, reached him by the 26th, giving him more than a week in which to notify me to come or stay. He did neither and upon my arrival met me with the assertion that I had failed to give my address in my last letter, and had said that I "could" come, thus leaving him in doubt as to my intention and unable to answer my letter. Upon asking to see my last letter, I was told that he had "lost" it, (a very unbusiness-like thing for a business man to do). He being very much in need of a man, I stayed until the 12th of September, working four and a half days, for which he paid me six dollars, and then considered that he and I were even, he having a man and I having lost my position, together with the expenses incurred by my journey.

This little narrative may prove of interest and serve as a warning to the hundreds of young men who read the FLORIST with the same interest as myself, and trusting in the same journal to do us justice when it is due. W. W. ERDMAN.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIÈRES

we have ever placed before the trade at this season. ONE HUNDRED different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.,

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

PUMPKIN	GRAPES	ROSES	FLORIST	PEACHES	PEACHES	PEACHES
FINE · LITHOGRAPHIC · WORK · IN · COLORS.						
· · SEED BAGS, · ·						
= NURSERYMEN'S · PLATES, =						
CATALOGUE COVERS,						
STECHER LITHO. Co., ROCHESTER, N. Y.						
APPLE	FLORIST	FLORIST	FLORIST	FLORIST	FLORIST	PEACHES

W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.

These Letters are made of the best imitations, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents: J. C. VAUGHAN, Chicago, Ill.; H. BAY-
ENDORFER & Co., Phila., Pa.; N. STEVENS, N. Y.;
AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Wash-
ington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.;
T. W. WOOD & SONS, Richmond, Va.; J. A. SIM-
MERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture the BEST LETTERS IN THE MARKET.
Sizes 1 1/4-inch and 2-inch, \$2.00 per 100. Patent
fastener with each letter.

With orders for 500 letters we give away a nicely
stained and varnished box. See cut in next week's
American Florist.

AGENTS: A. Rolker & Sons, New York; F. E. Mc-
Allister, 22 Bay St., N. Y.; E. Knuffman, Philadelphia;
H. Bayendorfer & Co., Philadelphia; P. A. D.
Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C.
Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt,
71 Lake St., Chicago; Wisconsin Flower Exchange,
151 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th
and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons,
6th and Marshall Sts., Richmond, Va.; J. A. Vick's
Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.;
J. C. A. Kuehn, St. Louis; Marchezuet & Co., 25 N.
4th St., Philadelphia, Pa.
J. A. Simmers, Toronto, Ont., A.G.T. for Canada.

You will benefit the AMERICAN FLO-
RIST by mentioning it every time you
write an advertiser in its columns.

BUTTED
GLASS
SASH
BAR.

CLIPPER

Does away with all
putting and trouble
in replacing broken
lights of glass. We
have been busy fill-
ing orders for this
kind of a bar, in

Clear Cypress.

Shall we book your
order next?

Enclose 2c. stamp for
sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, MGR. LOCKLAND, OHIO.



CLEAR
CYPRESS
SASH
BAR.

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

TOBACCO STEMS.

Put up in bales of 200 lbs. at
\$1.50 per 100 lbs. Cash with
order. F. o. b. cars Chicago.

LAKE CITY FLORAL CO.,
48 Adams Street, CHICAGO.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.



BAYERSDORFER



NEVER DOES THINGS BY HALVES.

The first fire was accidental. It destroyed much of our stock. The second fire was intentional. It was

A BONFIRE.

And into it we threw every remnant of stock which had been damaged by fire or water.

WE HAVE AN IMMENSE STOCK OF **NEW GOODS**, JUST RECEIVED, AND MORE ARE CONSTANTLY ARRIVING.

SEND FOR OUR PRICES ON

WHEAT SHEAVES, METAL GOODS, DRIED AND ARTIFICIAL FLOWERS, FLORISTS' LETTERS, AND ALL STANDARD GOODS AND NOVELTIES

BEFORE YOU BUY YOUR FALL STOCK.

H. BAYERSDORFER & CO.,

FLORISTS' SUPPLIES,

31, 56 & 62 North 4th Street,

PHILADELPHIA, PA.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED

— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

BLOOMINGTON (PHOENIX) NURSERY
600 ACRES, 13 GREENHOUSES

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Free Catalogue mailed free. Established 1862. **PHOENIX NURSERY COMPANY**
Successors to KINNEY TUTTLE & CO., BLOOMINGTON, ILL.

JULIUS TESMER & CO.,
Manufacturers of all kinds of

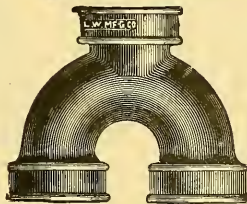
Ice Boxes

ESPECIALLY FOR FLORISTS,

937 to 941 N. Western Ave., CHICAGO.

— Telephone West 670. —

Greenhouse Pipe and Fittings



Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

Mention American Florist.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

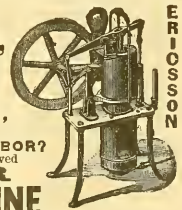
All of this can be accomplished by using the Improved

RIDER OR ERICSSON HOT-AIR PUMPING ENGINE

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.

Mention American Florist.



For Your
**GREEN HOUSE,
ROSE HOUSE,
NURSERY,**

ERICSSON

Foreign Notes.

BEGONIA MARIE LOUISE is a novelty of the rex type, exhibited at the Chiswick begonia conference. It is dwarf, averaging about 6 inches in height, with very handsome foliage. The leaves are heart shaped, bright green, with a large bronze patch near the base, veined with silver. The leaf is blotched with silver and has a bronze edge, studded with tiny silver dots.

RHODODENDRON RACEMOSUM is a new Chinese dwarf variety, growing only to a height of 5 or 6 inches, bearing loose heads of bell shaped, rosy lilac flowers. It is said to be thoroughly hardy and will be found desirable in rockeries.

IMPATIENS HAWKERI.—This useful balsam needs liberal treatment, or it acquires a starved appearance, stimulants being given it in liquid form. It is very liable to yellow thrip if kept in too dry an atmosphere or allowed to suffer for water.

FUCHSIA TRIPHYLLA, one of the varieties named in the review of new plants at the Washington convention, requires more heat than the ordinary forms, finding its most satisfactory home in intermediate temperature, rather than a greenhouse. Otherwise it requires the same treatment as other varieties.

SINCE garden pinks are coming into favor here it may be well to mention an old fashioned mode of propagating advised by the *Gardeners' Chronicle*. The piping is pulled out about the fourth or fifth joint, the base being left without any trimming and merely the tips of the leaves being cut off. The bed prepared—out of doors—should be like a mud puddle, an inch below the surrounding surface, in a shady place. The cuttings are stuck in to the base of the leaves, the soil being pressed close around them. The bed should be so full of moisture that it requires no watering until the cuttings are rooted. This is better than to attempt rooting the cuttings under glass.

OUR . . . HALF-TONE ENGRAVINGS

. . . ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

No More Leaky Sky Lights
Or Shliplog and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seddemen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 10 cents for a package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES' CO., Milford, Mass.,

Mention American Florist.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE. MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

Best in the market.

D. C. SCHOFIELD & CO.,

NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIFPLE, DOPFFLE & CO., SYRACUSE. N. Y.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.

IMPROVED GLAZING.

Zinc Joints for putting glass without laps. No leakage. No sliding of glass. Practically airtight. Keeps out cold winds, thereby saving fuel. No laps saves enough glass to pay for the zinc. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

RAY STATE HARDWARE CO.,
273 Freeport St., BOSTON, MASS.

CARNATION CULTURE; BY

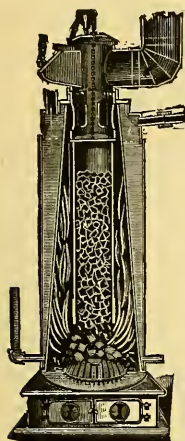
J. L. L. LAMBORN
Third Edition; containing all available information on the subject **NOW READY.** Price, 11.50 mail. Address **H. E. CHITTY,** Paterson, N. J.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS, HOT-BED
SASH, GUTTERING, ETC.



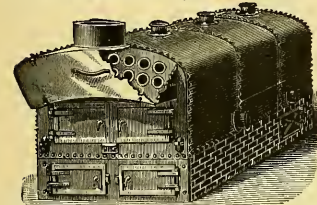
Chicago East of Sangamon Street.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

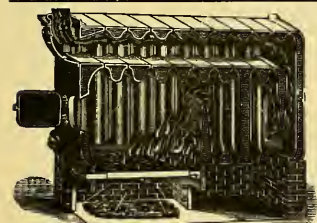


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

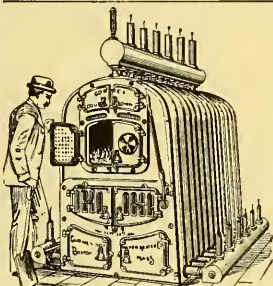
We make a Specialty of GLASS FOR HOT-HOUSES.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

THE LATEST AND BEST for heating GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Selling { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Agencies: { Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY, 57 and 59 W. Randolph Street, CHICAGO, NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.

SMITH & WEBSTER, MAKERS OF GREENHOUSE PIPE, FOR HOT WATER AND STEAM, 193 Lake Street, - CHICAGO, ILL. Mention American Florist.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT
DRAINAGE

For testimonials, circulars, etc., address

UPLAND GREENHOUSE,

W. P. WIGHT,

MADISON, NEW JERSEY.

Used by all the leading Growers and Horticultural Builders.



Save your Coal by using the
FLORIDA
HEATING APPARATUS
For Greenhouses
BEST IN THE WORLD.
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.



Mention American Florist.

The Gurney Double Crown Hot Water Heater.

**THE STANDARD Ventilating
Machines**
Received best awards at

BUFFALO, N. Y.
BOSTON, MASS.
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

Index to Advertisers.

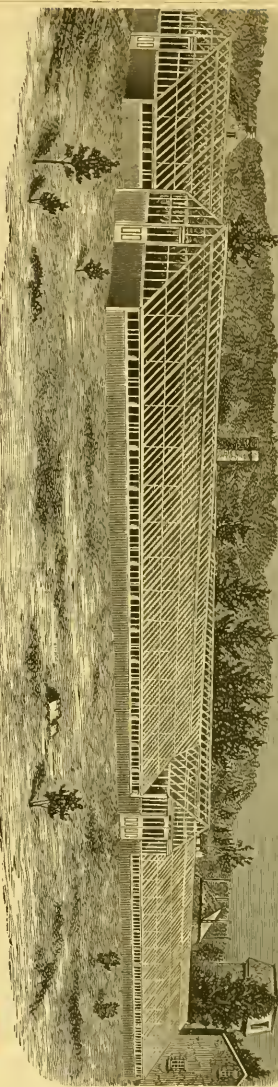
Abel C. & Co.	198	199	201
Adv. Rates, etc.	194		
Andromeda Nurseries	196		
Bellier F. A.	195		
Baronard W. W. & Co.	195		
Bay Co. Hort. Soc.	191		
Bay State Hdw. Co.	195		
Bayersdorfer H. A. Co.	195		
Beggs H. H. & Co.	198		
Boehmer Louis.	197		
Bonsall Jos. E. & Son.	197		
Boston Letter Co.	194		
Box John K.	192		
Bruckelridge & Co.	197		
Brunette J. B.	195		
Brauer & Richter	195		
Bubel R. Jr.	195		
Burns & Raynor	197		
Butrow J. G.	192		
Buxton Geo. E.	191		
Cameron H. L.	191		
Carman R. W.	195		
Carmody J. D.	197		
Chapel Harry	193		
Chitty H. E.	194		
Coleclough H.	192		
Cook John	195		
Cox Seed & Plant Co.	195		
De Cook Jules	195		
De Lamotte Iron Wks.	195		
Dietsch A. & Co.	194		
Dillon J. L.	191		
Dreer H. A.	191		
James H. W. & Co.	194		
Reichardt Theo.	198		
Elliott W. H.	194		
Fillison Wm.	194		
Frost H. G. & Co.	194		
Fitchell Lyman	191		
Field S. P.	192		
Gardening Co. The	193		
Gardlaier J. & Co.	194		
Gasser J. M.	194		
Gibson J. C.	192		
Gonseler & Co.	194		
Griffith N. S.	191		
Gurney Heater Co.	197		
Hall Ass'n	194		
Hancock Geo.	191		
Hart James	197		
Hartford & Nichols	192		
Henshaw Samuel	196		
Herr Albert M.	191		
Hessner W. J.	192		
Hewes A. H. & Co.	194		
Hill E. G. & Co.	194		
Hippard E.	197		
Hitchings & Co.	197		
Hoffman F. M. & H. N.	191		
Hooker H. M. Co.	197		
Hulsebosch Bros.	198		
Hunt E. H.	191		
Hunt M. A.	195		
Hunter & Purdy	197		
Irvine John Co.	191		
Jennings B. R.	191		
Joosten C. H.	198		
Kennicott Bros.	197		
Koffman H.	193		
Krick W. C.	194		
Kroeschell Bros.	197		
Knecht C. A.	197		
Lake City Floral Co.	194		
La Roche & Stahl	197		
Laurence John	195		
Leckland Lumber Co.	194		
Leubard R. T.	191		
Long Dan R. B.	197		

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON, AND GLAZED, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL CARPENTERS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

IRON BENCH FRAMES FOR SLATE OR WOOD TOPS.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.



HITCHINGS & CO.

ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,

HORTICULTURAL ARCHITECTURE AND BUILDING.

GALVESTON, TEXAS.—The Texas State Hort. Society is working in conjunction with the Texas State Fair to have the horticulture of Texas properly represented at the World's Columbian Exposition, and has recently issued a call to the horticulturists of the state for many exhibitors.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS

Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

The **SPENCE** HEATER
HOT WATER FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

Please mention the American Florist every time you write any of the advertisers on this page.

ROSES. OUR TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.
AMERICAN FLORIST CO., CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, OCTOBER 6, 1892.

No. 227

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 87 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.
The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Traill, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS

Cultural notes from a specialist	209
Our telephone	210
Lincoln Park, Chicago (with illus)	211
Carnations—Seasonable hints	212
—Tying	212
—Chester County Society	212
Some good summer climbers	212
Fancy bedding in Chicago parks (illus)	213
Roses—The American Rose Society	214
—Hybrid remonians	214
The Columbian Exposition	215
The cholera scare	215
Boston	215
New York	216
Philadelphia	216
Chicago	216
Baltimore	217
Syracuse, N. Y.	217
Rochester, N. Y.	217
St. Louis	217
Leaves of advice from a limb of the law	218
Coming exhibitions	220
The seed trade	222
—Quarantine of seeds	222
—The farmer and the truck patch	222
Two reference books	222
Toronto	223
News notes	224
Indianapolis	226
Excited for drainage	228
Painted glass	229
Florists' glass	230

SOUTHTON, CONN.—The Southington Agricultural Company has been organized here, with a capital of \$2,600 in 26 shares of \$100 each.

SPRINGFIELD, ILL.—The Central Illinois Horticultural Society agreed at a recent meeting to appropriate \$250 for a special exhibit at the World's Fair.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

Cultural Notes From a Specialist.

One of the most successful growers in this neighborhood is John Burton, of Chestnut Hill; it is always a pleasure to visit his establishment, as one is sure to find something a little out of the ordinary—a sort of exclusive upper ten class of stock. Being located in a large city he finds it to his interest to confine himself to specialties rather than a miscellaneous collection; in this way he becomes better acquainted with the habits of the few varieties he has under cultivation, and thereby brings them to a greater degree of excellence. In these days of fierce competition plants and flowers to find a ready sale must be well grown, and it is evident from Mr. Burton's success that the plan he is pursuing is a good one.

Some few years ago he noticed an increasing demand for large palms, especially fine plants of *Areca lutescens*; although palms were not at that time included in his list of specialties, he determined to try them, and as a result he was the first grower to place specimen arecas on the market in quantity. Since that time he has each season grown a portion of his stock into extra large sizes and produced plants that have sold readily at a price which a few years since would have seemed preposterous. A few days ago we found him inspecting his stock in one of the palm houses. "You never get tired looking at these do you, John?" "No," said he, "I admire them now as much as ever I did; is not that a fine plant?" pointing to a remarkably choice specimen areca in a 16-inch pot. It certainly was beautiful and was surrounded by others equally fine. "They are getting so large that we have to sink the pot into the ground, although this is a 16-foot house."

"In growing these specimens do you put several plants in one pot?" "No, we do that when we want to get bushy plants in from 8 to 10-inch pots, as it is a quick way of growing them, but above that size we prefer to select strong plants and let them break or shoot up from the bottom of their own accord; they make by far the best stock."

"Have you any special soil?" "No, we use our common rose soil, some sand and a little peat, but a small quantity of manure and that very rotten. This lot in 10-inch wane potting badly; it should have been done some time ago. Now we will have to put them into heat and keep them growing until the new roots get a hold of the fresh soil."

"Do you like the idea of growing small palms planted out on tables?" "No, they take up too much room, you have to allow for their growth when planting, and it is a good while before the space is filled up." "Well, but it is summer and the room does not count." "Oh yes it does, our houses are never idle a month

in the year. We must always have them filled up with a crop of something coming on if the place is to be made profitable."

"These 10-inch pot kentias are nice; you are growing some of them into larger sizes as well." "Yes, we will have a few specimen kentias after a while, but we have to be very careful with them. A blemish like this spoiled the sale of several plants last season," (taking hold of a damaged leaf). The areca has so many leaves that if one gets injured it is not missed when cut away, but with the kentia it is different. However, they will grow into fine plants another season. They are in demand by decorators, as they will stand so much knocking around, but the least exposure to frost is sure to tell upon them."

"You give palms plenty of space." "We have to, they will not make nice plants if crowded together; they must have room for the very start."

"Do the insects bother you much?" "Not at this season; they are more troublesome in the winter when the plants are not growing so freely."

"Your *latanias* look well." "Yes, they are fine plants, but take up a lot of room the leaves spread out so far. I think a great deal of this palm, *Phoenix rupicola*; it is rather a slow grower, but one of the prettiest and most graceful of the whole family. I really believe it is going to be one of our best palms commercially, standing out from among a group of others, or when as a specimen it is used by itself. It is bound to be a feature in a decoration."

"How about rubbers?" "Well, I like the ficus; it is a very useful plant and there seems to be more demand for it each season. It comes on quickly; all in this house were grown from single eye cuttings struck late last winter. We kept them growing right along and you see what nice plants they have made." "Yes, they are a fine lot."

"I will now show you my pet," said he, coming to a range of three new houses. These were all planted with what appeared to be Beauties in excellent condition. "This is the new pink Beauty." "Do you call it the 'pet'?" "No, it has not yet been christened, but I have given it a great deal of attention and like it better every time I see it, I believe it to be a freer bloomer than the Beauty, and while it does not throw up such great canes it is a strong grower, I don't remember ever seeing a blind shoot. We will have some good flowers in a short time; the buds are all being pinched off now, but we will soon let them come. The reason I have so much faith in this rose is that the American Beauty is the best rose in the market to-day, holding its own when well grown against even the finest hybrids. For years it has occupied this position without a rival, but now it will have to divide the honors

with my new rose, for it is in nearly every respect the same, with the exception of color, which is a clear lively pink when fresh, and in fading it takes on a lighter shade, becoming if anything more beautiful."

"You will sell some of the flowers this season?" "Yes, with the proviso that the wood is not to be used for propagating."

"Have you no *La France*?" "No, we have planted Beauties instead; they both grow and sell better with us. We planted this house with Meteors, which we are trying for the first time; it will be a fine color if we can only get it to come this way in winter."

"You have two houses of *Asparagus plumosus*; how do you like it by this time?" "It's the best all around green, both for the grower and decorator; it has come to stay and has taken the place of smilax to a very large extent. Our cypripediums are finer than we have ever had them before. We put them outside under this temporary structure with cloth shading early in the summer, and on these tables, well up from the ground, they have made a splendid growth and set their buds better than they ever did inside." "I should think some of the pans have over 50 buds on them." "Yes, all of that, they will make a great show when in full flower."

"They tell me that you have declined the nomination of your party to run again for the legislature?" "Yes, I find my business requires all my attention, and while I appreciated the honor I found I could not spare the time it seems necessary for a man to give who accepts a trust of this kind." K.

Our Telephone.

"Hello, there! Is that you, Ernst Asmus?"

"Yes, what is the trouble now?"

"The AMERICAN FLORIST wishes to ask you a few questions."

"Well, wait till I get through laughing, please."

"What at? Tell us, too, so we can join in."

"I read in a recent number of a certain florist's trade paper that a certain New York grower was bringing in the first lily of the valley of the season. I took the trouble to inform them that I and others have valley all the year round, and that being the case nobody could have the 'first valley'. They then went to work and printed a correction, in which they informed their readers that when they said 'the first valley' they meant the 'first out-door grown valley'. Now, say, what is 'out-door grown valley' in September, anyhow?"

"Well, that was pretty good. But can't you now tell us something about Mme. Caroline Testout?"

"Yes, I thought so. I've had more letters about that rose than—well, its Testout, Testout, every day from morning till night. For once I had enough sense to keep my mouth shut about it last year, and I have got it pretty nearly all to myself for this season. I've got 4000 plants. It's a big thing."

"What are its good points?"

"First, color. There is nothing like it for color. The purest, richest pink imaginable. And it never goes off color; just as good in midwinter and cloudy weather as at any other time. In form it reminds slightly of *La France*. Stem much stiffer than *La France*, and I've had flowers on it bigger than any hybrid. Length of stem is another good point. It throws

up like Beauty, big strong wood, and is always in bloom."

"What are its bad points?"

"Haven't seen any yet. It is awfully thorny; that's the only trouble I find."

"Are you sending the blooms to market yet?"

"None till November. Many a new rose has been killed by placing it on the market before it was in proper condition."

"Have you any other promising novelties in roses?"

"Kaiserin Augusta. That's another good one. I'm not sure yet, but I think it will give the Bride a pretty hard tussle. It has a most delicious fragrance, and the buds all come solitary on the stem."

"Are you doing much in Meteor?"

"Three times as many as last season. That is going to be a mighty good paying rose this year. Dark red is to be the fashionable color, I hear. There is a big demand for Meteor already, and it is bringing more than any other rose."

"What other varieties are you running strong on?"

"Cusins and Wattevilles are still the main stay. I've got a good many more Hostes than usual. I've discarded *Perle* for it entirely."

"Why, Hoste is not yellow enough to take the place of *Perle* surely?"

"Well, what's the use? You get no winter bloom from *Perle*; it's all bull-heads. I've abandoned Gontier, too."

"Why?"

"It's not a paying rose. In fall and spring you get nothing for it, and that pulls the average away down. They've almost all given it up around here."

"We are fighting mildew just now. Have to use sulphur about every other day to keep it down on some varieties, and if you don't guard against it now you are a goner. The sulphur makes bad work with the edges of the petals, though. Watteville suffers especially. The petals burn every time we use the sulphur."

"How about hybrids? Is there anything new in forcing varieties?"

"Nothing. The new ones are good enough for the other side; but when it comes to forcing them, that's a different thing. They don't pay any longer here; anyhow. If it were not for using our houses for two crops, I shouldn't bother with them this year. But they are going to take the place of the chrysanthemums as soon as those are fired out. I have ten houses of chrysanthemums; so that means ten houses of hybrids."

"Oh, we want to hear about those chrysanthemums. What are the prospects? Will they pay well this year?"

"In my opinion chrysanthemums are going to be a good thing this year. Of course I can't tell beforehand how the fashion is going to run, but they're all crying out already, 'When are you going to have them?' and that's encouraging."

"What are the indications as to quality?"

"Well, it's a little early to tell about it yet. Ask me last week in October. I'm going to keep my houses locked up this year, about that time."

"Oh, you are! What's that for? So you will not scare the other boys from entering for the premiums at the exhibition?"

"Well, never you mind what the reason is, and don't you put that in the paper, neither. On the whole, though, I think my chrysanthemums look better, if anything, than at this time last year. That is, with the exception of one bunch of

Flora Hill, which I foolishly planted on last year's soil. Flora Hill must have good new soil. As a rule it is a poor grower, but it is a beauty, and for keeping qualities it can't be beat. We tested it last year in Young Bros.' ice-box, and it lasted for six weeks. Other varieties don't seem to mind the old soil so much; but I believe in good eating and drinking, and we make it a point to feed them all well."

"What varieties are you growing, mainly?"

"Oh, lots of them. We're bound to have enough varieties this year. We've got all the novelties of the season, foreign and American. Of the older varieties, we are strong on Wanamaker, Jessica, Ivory, Ada Spaulding, Mrs. Thomas and Mermaid. Jessica I shall have nearly all to myself; several of the large growers round here have lost their stock of this from one cause or another. In yellows, Rohallion, Widener and Lincoln are the main stand-bys. One thing I notice about this year's novelties is their strong, handsome foliage. Many of them are remarkable growers. George W. Childs is a big strong grower, Excellent is another with big stems; so is Grace Hill and Exquisite. Exquisite is a seedling from Mrs. Fottler, and it is a beauty. Potter Palmer is another that is praised up by Mr. E. G. Hill, but I have not seen it yet. He says the bloom is twice the size of Jessica."

"What troubles have you had to contend with this season?"

"Trouble! I'm right in the midst of it now. Disbudding is the worst thing I've struck. It comes on us all at once. Last week they were not far enough advanced to disbud. This week they are all ready for it, ten houses of them. It's a big job, but it must be done. Don't spare to use the knife. But, remember, it requires a good deal of judgment, and there are few men you can get who can be trusted to do it right."

"There is considerable black spot around on certain sorts. Jessica, Domination, Mermaid and Flora Hill are the most subject. Many varieties do not show it at all. For a remedy I am using (as recommended by Prof. Haisled) carbonate of copper and ammonia water, and this seems to stop the disease. The proportions are 12 oz. of carbonate of copper and 1 gal. of ammonia to 50 gals. of water. I am inclined to think that if it were used as a preventive once a week we would never see black spot, but, like everything else, we neglect it until it appears."

"With grasshoppers we use Harris' remedy, 'catch them.' It pays to follow them up, for every grasshopper caught means a flower or two saved. The cut worm is around, too. We have to keep a sharp look-out for them. Jerusalem! how they do eat the buds!"

"Well, Mr. Asmus, we are most obliged to you for your kind information. It is exactly the stuff our readers are looking for."

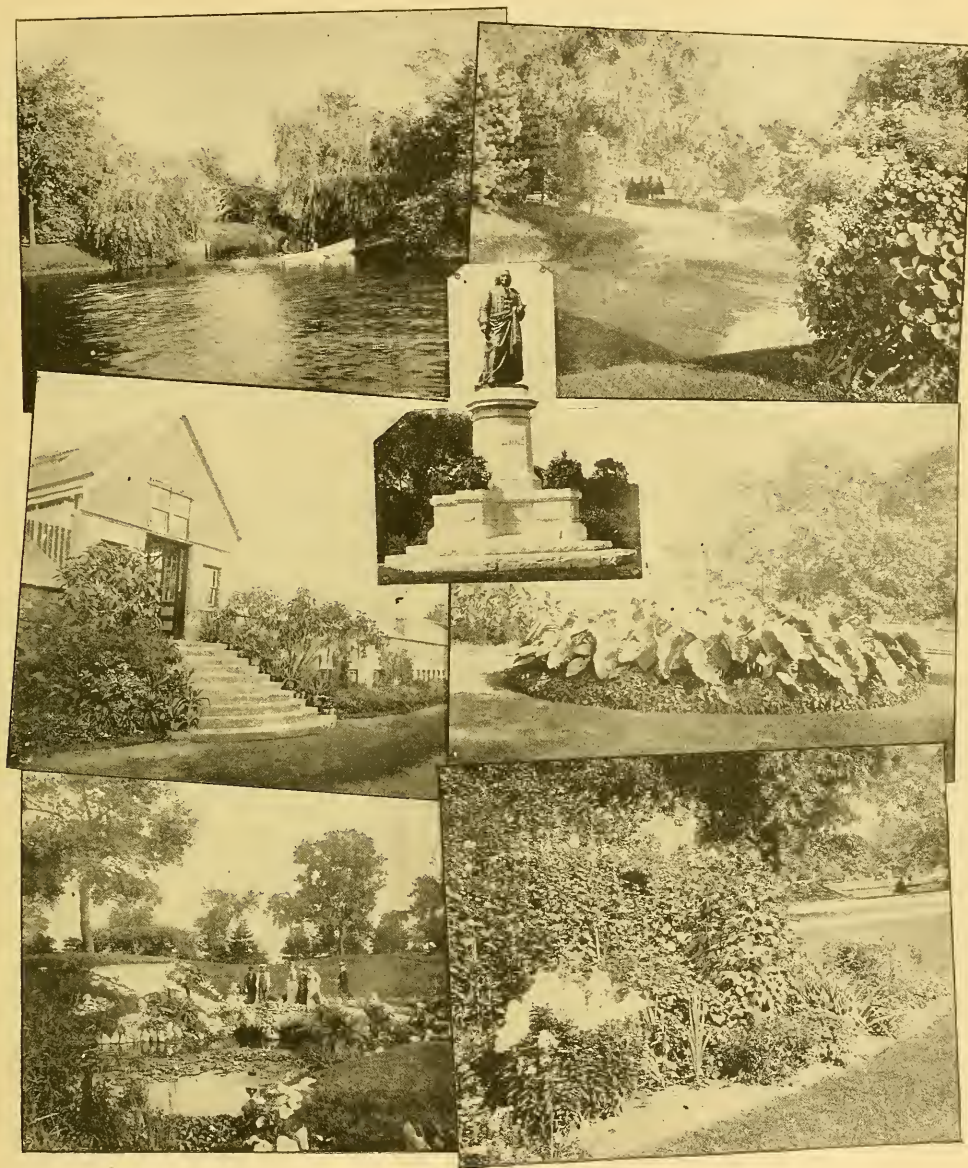
"All right, you're welcome; but you caught me just in time, for I'm going gunning next Monday, and shall be gone three weeks."

"What are going to shoot?"

"Nothing short of a moose or a caribou. I've been practising right along; and if I run across a moose, he's mine, sure."

"Well, remember that we speak now for his horns, to ornament our office with."

"Alas—ah, I guess so. You do? Well, let me tell you that's just what I want for myself. Good day."



VIEWS IN LINCOLN PARK, CHICAGO.

Lincoln Park, Chicago.

In this issue we present a group of views in Lincoln Park, Chicago.

In the upper left-hand corner is a charming view across one of the artificial lakes, and adjoining it at the right is a view across the strip of water known as "the canal," a part of one of the handsome vases for which the park is noted being seen at the right. The statue of Linnaeus, the great Swedish botanist,

was presented to the park by the Scandinavian people of Chicago and was unveiled about a year ago. It represents the botanist returning from a collecting expedition, under his arm being a book of specimens and in his hand a few flowers gathered by the way. At the left of the base of the statue is seen the entrance to the park greenhouses, with a group of decorative plants on either side, and at the right a handsome bed of *Caladium esculentum* bordered with coleus.

In the lower left hand corner is a view of a rustic stone bridge crossing the narrow part of one of the ponds of aquatics, and to the right is seen a corner in the herbaceous garden.

Do you want an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.



Seasonable Hints.

Planting carnations on the benches is a matter that needs considerable judgment. The soil should be moderately moist and the plants set with the long roots well down therein, but the main stem not deeper than found growing outdoors. Too deep setting is thought by many to be the cause of damping off, though we are not sure of this. The plants should be set firmly and the ground well compacted around them. Carnations always do better in firm soil. The distance should be governed by the size of the average plant, say six to eight inches in the row, and the rows eight or nine inches apart; very large plants may need more room. The smaller plants may be used by doubling, setting two or more together, and by this means the spacing is kept uniform. Water the benches well after planting, making sure that the water goes to the bottom, giving them a good soaking. The glass should be shaded at once, or better, before the operation of planting begins. The amount of shading should be regulated according to the season, August and early September demanding a pretty heavy coat, but as the season advances less dense shade should be used, while as late as the middle of October little or none will be required. We speak of our own latitude. Don't use whitewash for shade in the fall, else you will have great difficulty in its removal. We use whitening applied on the inside with a whitewash brush; this takes a little longer to apply than to use the same material or clay with a syringe on the outside, but by the former plan it will not be washed away with every shower and can easily be removed with the hose at any time or wiped off when dry with a piece of bagging.

The carnation, properly lifted, planted, watered and shaded, will be found after two or three days to be throwing out tiny white rootlets from the main root stems, and this is an indication that our work of shifting has been successfully accomplished. The formation of these new roots is a process entirely similar to the propagation of the plant at the start, and the conditions required nearly the same. The soil is sufficiently warm for the purpose; we have wet the plants well in planting, and the houses should be kept cool overhead by thorough ventilation night and day. In the course of a week the shading should be gradually removed and in two or three weeks the plants will be well established in the benches. W. R. SHELMIRE.

Tying Carnations.

Very few growers of carnations question the need of most varieties for a support of some kind. A great many different devices have been used. One stake is most common, with one or more tyings of twine. I have seen four stakes used to a plant and three or four tyings of strips of bass matting. Then there is the "rail fence" method, as it might be called. A lath two feet high is nailed to the side of the bench at each end of the row, having holes at different heights in which is supported a bar made of lath split once. To

this the plants are tied. As the plants grow taller the bar may be raised to the hole above. No stakes are set in the soil, which is an advantage. The bars give more shade than the stakes, and it is not so easy to get at the individual plants to "right them up" as they grow.

I tried the "chicken wire" netting last winter on a small scale. One trial is enough for me. There was no saving of time in preparing the netting and putting it in, over staking in the ordinary way. The saving would come the following years. The ends of the wires at the front of the bench were an annoyance. The second growth was not supported but lay this way and that across the top of the support. Towards spring I took it all out to clean the plants and put in stakes. My present plan and practice is to use one stake for small plants. Most of the plants, however, are better served by two stakes, placed one each side, tying with twine passed around the whole plant and pressing on the stakes, the elasticity of which prevents it from slipping downward. The stakes themselves hold up the plants on two sides and prevent it from swinging round, as it will do when tied to one stake only under the force of the syringing. As the plants grow and fall over, each plant being independent, it is easily and rapidly straightened up and the string slipped up to support it. The tying with two stakes can be done in less time than it takes with one. I also tie with a bow knot. This facilitates the cleaning and pruning process necessary toward spring. The strings are instantly removed and the plant free to work upon and the same strings are at hand to tie it again.

Where two stakes are used one long and one short may be employed to advantage, thus using the old stakes till they are not more than 15 inches long. Sometimes I have very large plants and use four stakes, parting the stems and tying as though it were two plants. This lets in the light and air, which is very desirable for the carnation in winter. The kind of stake to use depends on what is the most easily obtained and cheapest. The cane stake is strong for its size and durable if mature when cut, but those I have had were, a large per cent of them, immature, and such will hardly last one winter. Being so smooth the tying material slips down easily. The use of two stakes to a plant prevents this mostly, however. The best stake ever used was made of cypress sawed about $\frac{3}{8}$ to $\frac{1}{2}$ inch square. The lower ends dipped in petroleum oil makes them last several years. There is no slipping of the string on the sawed surface. These require sharpening. The cane stakes do not if cut obliquely. The best tool to cut the canes with is a "broad-axe tobacco cutter," the next best is pruning shears. I cut them 30 inches long, leaving some of the top ends longer for summer use. The shorter ones are supplied by cutting over the old ones. SEWALL FISHER.

Chester County Carnation Society.

At the last regular meeting of this society several new members were added. The committee on sale of flowers offered suggestions for the organization of a Flower Exchange, by which the product of the growers might be sold through one channel.

The subject for discussion: "Treatment of carnations for winter blooming," brought forth much discussion. Edward Wayne agreed with the views presented

by Secretary Shelmire in last issue of the *FLORIST*, but found Portia had stood moving after coming into bloom before lifting. C. J. Pennock and Jos. Phillips thought it safer to lift before buds were far advanced. J. J. Styer had lifted a house of Lamborn after commencing to bloom and found that with plenty of fresh air and water they did not suffer. These plants were brought in when the ground was extremely dry. Jos. Phillips and Mrs. Cowan found Grace Wilder had broken badly when lifted, and as a remedy had tied the tops before lifting.

Attention was called to the liberal offers made by the various horticultural societies, notably of Penna. Horticultural Society, N. Y. Florists' Club, Bay County Horticultural Society (Mich.) and Cincinnati Florists' Society, in the way of premiums for exhibits of carnations. A committee was appointed to arrange for an offer of a gold medal for seedling carnation at the annual meeting of the American Carnation Society. C.

Do YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

Some Good Summer Climbers.

At the Botanic Garden in Washington no vine is attracting more attention than *Aristolochia elegans* with its peculiarly shaped and beautifully marked flowers. It is a native of Brazil, grows rapidly when planted out in good light soil and given plenty of water. It is easily grown from seed, and ripens seed freely with us. Flowers, solitary, on long pedicels; perianth tube, pale yellowish green, from $\frac{1}{2}$ to 2 inches long, rather inflated, the tube suddenly expanding into a shallow cup, which externally is white, veined purple, internally rich purplish brown with irregular white marks. Flowers from July until frost. It is classed as a stove climber in the books, but we find it an admirable outdoor summer vine, a good grower and very floriferous, worthy of a position in any garden.

Antigonon leptopus (belonging to the order Polygonaceae), native of Mexico. It is a very handsome vine when in flower, is a strong grower when planted outside in good rich soil; a little well rotted cow manure will help it. It requires an abundance of water during the warm weather and should be thoroughly drained; they have made a growth of 30 feet in a single season at the U. S. Botanic Gardens. It is usually classed among the shy flowering vines, but if given a fair chance one will be well paid for his trouble and expense. It requires the full light of the sun to have it flower. The stems are slender, seldom more than one-half inch in diameter; flowers in long racemes on panicles, often 12 or 14 inches long. The outer three sepals are of a beautiful rose color, the center of a much deeper tint, raceme second, bearing several colored bracts as well as flowers and ending in a branched tendril. It flowers from August to frost. Easily propagated from cuttings from ripe wood in sand with bottom heat.

Stigmaphyllon ciliatum, or Brazilian Golden Vine, sometimes called the butterfly vine.—This is a very attractive vine, the foliage glossy bright green, producing quantities of bright yellow flowers about the size of a 5 cent piece, from 3 to 8 in an umbel. Petals fringed with long claws. Is a strong grower, soon



FANCY BEDDING IN THE CHICAGO PARKS.

covering a large area. It requires a light rich soil, well drained, and likes an abundance of water during the hot weather. It is an excellent outdoor summer vine, producing an abundance of flowers resembling those of an ocimum. Mr. Smith has grown this plant at the Botanic Garden for the past 10 years (during the summer) on the railing in front of his office, where it never fails to attract the attention of all visitors. It begins to flower in July, continuing until frost. Is easily propagated from cuttings in the

fall from ripe wood. Nicholson's Dictionary of Gardening classes this plant as a "stove climbing shrub," and I notice in the *Garden and Forest* of September 7 "Cultural Department" "M. Barker" has it among the "Summer Greenhouse Climbers."

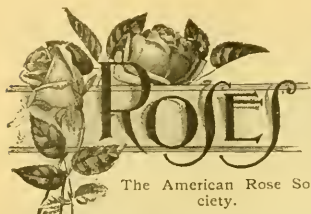
C. LESLIE REYNOLDS.

Fancy Bedding in Chicago Parks.

In the upper left hand corner, right center and lower right hand corner appear

views in Washington Park. The last named is a bed of celosias with a border of centaurias. The upper right hand corner gives a glimpse of the bedding in Union Park, the mound in the left center view is in Lincoln Park, and that in the lower left hand corner is in Garfield Park.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.



EDITOR AMERICAN FLORIST:—I have no desire to enter into a controversy, or to take up your valuable space, which I feel can be more profitably filled by more experienced writers than I, but when so prominent a writer as C. B. W. makes so public a statement in regard to "The American Rose Society" as that "The chief topic for discussion seems to be which faction will have the most to say about how it (referring to the proposed reserve fund) is to be spent," I cannot but ask your permission to make my protest for the sake, not only of myself and associates, but for the entire craft, against the use of such strong and misleading assertions. I really think friend Whittall must be making campaign speeches, or he would surely not speak of "factions" in connection with the organization of the rose society.

For the information of Mr. W. and your many readers I desire to say there is no faction or factions discussing which one shall "have the most to say." With but a few exceptions (I can recall but one) the discussion regarding the relative powers of members, was entirely between parties who had pledged \$100 each to start the society, and they were all the time talking in favor of the members who would only contribute annual dues. The proposers of that fund were perfectly disinterested so far as their \$100 were concerned, but they did want to so arrange matters that they could with some degree of assurance ask other whom they hoped would contribute \$100 to do so; and I think very naturally they thought that if they asked their friends to put in \$100 and pay the same yearly dues as all others there should be some distinction made and that somewhere there was a line where the division could be justly placed. And instead of a war of "factions," as Mr. W. indicates, the contributors of the fund are the ones that are seeking the line where, in justice to all, the relative power of the members can be placed. Mr. W. overlooks Mr. John Burton's proposition, that he would be one of 100 men to contribute \$100 each and give it unconditionally to the society; so far as they could be seen in the limited time all of the 21 subscribers enthusiastically agreed to that.

I deeply feel that Mr. W.'s implied charge of selfishness, or the desire to raise \$10,000, "then elect a board of directors to devise means to spend it," is an unjust one to the proposers of this fund. Had it only been a question of the raising of \$10,000, a very brief scrutiny of the contributors' names would convince anyone that the sum could have been subscribed and paid in less time than five minutes. But it was the good of the entire trade they were thinking of, and every member of the S. A. F. would have received a benefit from this fund. Not having it called for I cannot say the exact sum that could have been raised at the meeting, but I do know of five men who, if it had been needed, would have given \$500 each to start, and one, if not more, who would cheerfully have given \$100 a year so long

as needed and the society was doing good work, even if no results could be seen beyond cultivating a love for flowers, and thereby elevating the people of our country, by an increased love for the beautiful. These men would not be particularly benefited by a new rose, and probably, if one was introduced, would not receive as many of the "almighty dollars" as friend Whittall would from the selling of the same rose. Again Mr. W. is in error in saying "we haven't been told yet what we want it (the money) for," for the objects of the society state what the money is to be used for, and at the preliminary meeting Messrs. Hunt, May, Burton, Hill, Craig, Pierson, Michel, Tesson, Evans and a dozen more very plainly told what the money was needed for, and what, if subscribed, it would be used for.

I cannot agree with Mr. W. that the offering of a premium of \$3,000 for a certain class of rose is a "stimulant" in the way he puts it, but it is simply pay (and probably at a very low rate of wages) for the value conferred on the trade by the party who, by his labor, thought and care, has produced the new rose. The power that makes the world move is in one way a stimulant, and the greater the hope or prospects of the attainment of the rewards the faster the world goes, and the more improvement there is accomplished. Would Mr. W. have put \$10,000 into a handsome flower store because the public of Milwaukee demanded nicer flowers, if he had not had the "stimulant" of a reasonable hope they would appreciate it and that his reward would be that same "almighty dollar?"

It is needless to enter into a discussion of the conditions of rose growing as now conducted, which prevents an originator from getting the reward he is fully entitled to, and which in other branches of business he does get, and which not only prevents, but also discourages him from attempting to raise new varieties. It is to some extent to overcome these conditions and to encourage growers that the rose society wishes to offer what honor they can, with something more substantial, if possible, to the man who after, perhaps, years of toil in thought and care, if not of his hands, has earned the reward and with it the gratitude of all flower lovers by the production of a new rose. There was not a speaker at our meeting that did not tell of the good the society could do and the amount of money that could be saved every year to the trade by the establishment of a trial ground for new varieties; a number also told of how the people on the other side would have to send their new things here for trial after we were thoroughly organized, instead of individual members of the trade here and there paying high prices for the plants, as now.

But while large sums of money can be saved every year by a trial ground, it requires money to properly conduct it, and with this and other objects in view the meeting at Washington unanimously agreed that a reserve fund, and a large one, was a good thing to have. Why, if the stimulant of offering prizes is altogether so unwholesome, has not friend Whittall's capable pen been wielded against the offering of premiums at chrysanthemum shows, art exhibitions, World's Fair, etc., etc.? We certainly shall forgive Mr. W. (if any forgiveness is needed) for his candor, and trust he will as freely and cheerfully forgive our frankness in replying. H. B. BEATTY.

THE NEW hybrid tea rose "Mrs. W. J. Grant," which won the gold medal of the

National Rose Society of England and any number of certificates at various British exhibitions, has been purchased from the raisers, Messrs. Alex. Dickson & Sons, by a leading American rose grower, hence will be first put on the market in America. This will probably be in spring of 1894. The rose is described as a remarkably free bloomer, flowers of large size, and faultless form and finish, petals deep and of great substance, color bright carmine pink and fragrance delicious.

Hybrid Remontants.

Where early flowers of these are desired, and plants have been prepared as advised in former issues of this paper, care must now be taken to finish the ripening process properly, or the result will be anything but satisfactory, and, as heavy rains may be expected at any time from now on, provision should be made at once, if not already done, to protect the plants from getting wet. Otherwise they will be very likely to start their lower eyes prematurely. If they have been grown in pots, this is easily done by laying them on their sides with the tops north, if possible, and covering the pots with ashes to protect them from the direct action of the sun, in a place where they can remain till wanted to put in the greenhouse. Any that are not required for earliest blooming should be placed in a coolhouse before severe frosts set in. The wood should be firm and the leaves that are left on them somewhat pale by the ripening process before pruning them; but extremes must always be avoided in this as in many other branches of our business. The wood should never be allowed to become shriveled. A medium course between growing soft wood and sending them quite to rest must be followed for several weeks, to get them in the best condition, and when this has been done the grower need have no fear to prune such plants back rather severely; in fact, they should always be pruned back to good solid wood and plump eyes. Having carried them to this stage they should be cleaned off thoroughly, some of the old soil removed with a piece of board or flat stick from the surface of the pots, and a mulching of rich compost, half manure and half fresh sod with a little fine ground bone added, and the pots filled up nearly level, after which they should have a good soaking of water each day till the whole ball becomes thoroughly moistened. Syringe twice a day if sunny for the first week or ten days, but avoid getting too much fire-heat at first; it is much better to start at 46° to 48° at night than higher, though some varieties will stand a somewhat warmer temperature at first than others; but it is better to be on the safe side even with such varieties.

As soon as the eyes begin to swell a slightly warmer night temperature can be maintained, but avoid sudden falling in the same at all times, particularly after the eyes begin to start. Where they have been grown in flat boxes a little more care will be needed to protect them from heavy rains, as they are not so handy to lay on their sides as pots. If any old sashes are available a temporary structure can be erected, three or four feet from the ground, and the boxes stood close together under it, leaving the sides open; this admits sunlight and all the air necessary to complete the ripening process. For after treatment the same is applicable for these as for pot plants.

But where the plants have grown in benches all through the summer under

glass a slightly different course of treatment will be required, as the whole resting process depends entirely upon the operator, the cool, drying winds, etc., which are of material help in the open air, having but an exceedingly small influence inside the greenhouse; therefore the process of ripening will have to be started somewhat earlier and more care will be needed to prevent overripening, as a little too much of it will quickly cause the wood to shrivel. The variety Mrs. John Laing is particularly sensitive to this; for, while it needs as much rest as any known variety, yet it will not stand the least amount of over-drying—or, rather, being too quickly dried up. To give this variety the best show it requires six to eight weeks treating to the resting process. At the end of this time the wood should be good and firm with a very few leaves left on it, and when starting to rest it all the very soft young shoots which have been recently started from the base should be cut clean away with a sharp knife. Such varieties as Magna Charta, Anna de Diesbach and Ulrich Brunner can be handled much easier—or, rather, do not need such a thorough rest—though no one should imagine that they can be grown successfully without a good rest.

Later on, or as soon as a few degrees of frost for several nights in succession sets in, this will effectually rest any plants that are subjected to it, and a crop of fine flowers from such plants is a moral certainty with anything like reasonable treatment in the growing of them afterward. One thing should always be borne in mind: that is, to secure really fine flowers, the plants need very liberal but judicious treatment, and at no time should they be subjected to a temperature exceeding 56° to 58° at night.

JOHN N. MAY.

The Columbian Exposition.

Without doubt the most interesting collection yet received is that from New Zealand, of which mention was made last week. It is doubtful whether such a group of ferns, consisting of tree ferns, *Asplenium nidus* and *Platycerium alcinorne*, has ever been gathered together before; they are grand and remarkable specimens. The Stag's Horn Ferns, growing in circular form around the trunks of trees, are immense masses, several of them five feet in diameter. It is Mr. Thorpe's intention to elevate these on stumps, firmly braced, and then to put another tree above, giving the effect of one tree from the bottom up. The center depression around the tree above the fern will be planted with *Ipomoea setosa* or some other quick growing vine, which will cover the tree, giving the foliage effect of the forest where the *platycerium* made its home.

The group of *Asplenium nidus* is of great interest; they are all finespecimens. Mr. Thorpe pointed out the semi-parasitic or epiphytal nature of this fern in its first growth. The spores find lodgment in crevices in the bark of some cypad, an example being found on a stump of *macrozamia*, and there the fern slowly grows, hugging the cypad with its roots, and eating away its strength, until the larger plant gives way. Most of the *aspleniums* were found to have their roots imbedded in the remains of a cypad trunk.

The tree ferns were leafless and dormant when received; they were at once put in shade and gently started and they are now slowly unfolding glorious crowns. There are five twin *dicksonias* among

them, having the trunks joined together, but the most remarkable is the twin specimen of *dicksonia* and *alsophila*. The plants sent by New Zealand are all characteristic of the country, recalling the extinct flora of the carboniferous period.

The collection sent from Jamaica, consisting chiefly of economic plants grown in that island, arrived in very poor condition, and many of them must undoubtedly be lost.

The *salvias* and *marigolds* for the dedicatory ceremonies are now a grand mass of color and the cosmos will soon be lifted to bear them company. There is a brave show of bloom on the island, but there is no means of communication with it except by boat. Pitcher & Manda are now arranging their herbaceous exhibit, which will be planted on the island this autumn.

In the houses, potting and arranging is still going on. The *Crozy cannas* are planted in tubs and are blooming fully. They will be used in the decorations. Some tremendous masses of *Dendrobium speciosum*, which came with the New Zealand consignment, are ready to be established. They are very large pieces, with strong thick leaves and large pseudo bulbs. Another acquisition in the line of orchids is a big mass of *Sobralia macrantha*; this will be divided to form two large plants.

More additions have been made to the collection of night blooming cacti, and it is likely to be very large. Within a few days a superb collection of specimen plants will be received from Pennsylvania; Mr. G. W. Childs, Mr. Drexel and many others have made most generous presentations.

A group of fifty-odd orange trees, comprising the favorite varieties, represents Florida; they are to be planted out to form a grove.

Superintendent Hamilton of the Allegheny City parks will spend much of his time here for the present, having charge of the grounds around the Pennsylvania State Building.

Oregon fruit growers purpose making a fine show of fruit at the Columbian Exposition. The fruit is preserved in glass jars, natural color being retained.

The Michigan Agricultural College is preparing an exhaustive collection of Michigan flora for display at the Columbian Exposition.

The Cholera Scare.

ED. AM. FLORIST.—Very likely your readers are interested as to how the cholera scare works in New York. Well, except in the papers you notice nothing of it, and this tends merely to scare the rest of the country unnecessarily. The situation is best described in the report to the public of the special committee of the Chamber of Commerce under date of September 19:

"We look upon New York at the present time as one of the safest places in the country in which to be. The people are going quietly about their business and are not afraid. The same passengers from the Normannia who were not allowed to leave Fire Island on Monday were received on Friday into the hotels and homes of New York without hesitation. The committee is confident that the deplorable panic of the people in the vicinity of Fire Island reflects their fear of the use of that island as a permanent quarantine rather than any terror due to the actual situation.

"No passenger vessel sailing since the president's proclamation of September 1 has brought cholera, a circumstance that reflects in some measure the greater care that is being exercised abroad. The temporary cessation of immigration relieves the strain in proportion, and the sensible thing for all to do is to pursue their usual avocations, to continue their customary intercourse with all parts of the country and to avoid paralyzing business through vague fears, more than the cholera itself has done."

As regards the danger of infection

through the mails or through goods passing through infected ports, the Associated Press dispatch from Berlin dated September 19, and given verbatim hereafter, speaks volumes:

"BERLIN, Sept. 19.—Professor Koch has written a letter in which he says he does not believe that cholera can be transmitted through the post by means of letters or printed matter. The 'Reichsanzeiger' publishes a report of the imperial Sanitary Commission, in which it is declared that inquiries show that there has not been either in Hamburg or elsewhere any case of cholera spread by goods other than those the importation of which is now prohibited. Commenting on this statement the 'Reichsanzeiger' says: 'The endeavors to suspend all commerce with infected places are thus far proved to be unjustified.'"

The special committee on quarantine, of the N. Y. Chamber of Commerce, composed of seven prominent physicians, state in their report plainly that they see no danger of infection being brought into this country through the mails nor through the cargoes of vessels, except the latter contain goods that are put up and packed in cholera infected places. The mere passing of goods through such places they consider of no danger and they advise disinfection only in cases where goods have travelled on cholera infected vessels; and they think that such a disinfection as will not injure the contents will suffice.

Thus it appears that little fear need be entertained for the spoiling of plants and bulb shipments by the quarantine disinfection. A longer detention in case cholera should break out on board during the voyage might possibly work some injury, but this risk seems very small indeed judging from present sound arrivals of the ocean steamers, including even the ones from Hamburg which sailed without emigrants.

Your readers may therefore feel no fear about goods imported from the European continent and delivered in original packages; and much less need they fear goods that are repacked and shipped from New York.

W. ROLKER.

Boston.

Little activity is yet noticed in the cut flower trade. Roses are far too plenty for the slight demand and many are sold in quantity as low as \$1 per hundred. Colder weather may bring an improvement.

Judging by the florists' windows a good trade in small palms and decorative plants of like nature is looked for this season in the retail trade. Boston has been somewhat behind Philadelphia and New York in this respect, partly possibly on account of the fact that there are no large establishments here which make a business of growing this class of plants in quantity. The extensive use of such plants in the beds of the public garden this year and the great favor with which they have been received as compared with the former geranium and coleus arrangements has also added much to the popular interest in them.

All the large specimen plants from the various private establishments here which were donated to the horticultural department of the World's Fair have been safely started on their journey to Chicago, under the supervision of Mr. Patrick Norton. The weather has been remarkably favorable. The danger of early frosts had caused considerable solicitude.

Messrs. L. J. and W. Doogue will soon open a fine florist store on Boylston street near Arlington street.

The annual election of the Mass. Horticultural Society took place on October 1,

the regular nominees being elected without opposition.

New York.

With the exception of the last two days the week has been a disastrous one for the rose men. There has been a most unwieldy overstock in all varieties and prices have been badly demoralized. Fortunate is he who at such times receives a dollar a hundred for his cut. In quality they are feeling the effect of the warm weather and many lots have a bedraggled look which makes them appear very tired as soon as they reach the city. Meteors and Wattervilles at Young Bros. look pretty handsome, however, and the American Beauties which they are receiving in enormous quantities now are rapidly approaching winter perfection in color and size.

Burns & Raynor are much pleased with the way in which Mr. Moore's new "Bridesmaid" is coming in and look for an increased popularity for this variety. W. F. Sheridan and E. C. Horan are also big receivers in the rose line, so are Millang Bros.

What becomes of all the roses at such times is a mystery. But what would become of them if it were not for the existence of the street men and Greeks is a problem too fearful to contemplate. At the 34th street market in the early hours of the morning is when these worthies congregate in greatest numbers.

The great bulk of the stock at the market just at present consists of coarse garden stuff such as dahlias, tuberoseos on stalk, rose geranium, salvia, gladiolus, etc., which come in veritable wagon loads. Among the regular patrons who are always on hand are Geo. Stump and John Weir, who when they can find no special bargains going vic in telling stories about each other, the items of interest in this line at present being confined to an involuntary bath which Mr. Weir took when landing from a boat and a ghost scare at Mr. Stump's house one night caused by a musically inclined cat marching up and down over the piano keys.

At the next meeting of the Florists' Club a report on New York's horticultural interests at the World's Fair is expected from President Dean, and the nomination of officers for the ensuing year will be in order.

Wm. Elliott had on September 30 what he termed the best plant sale he ever had. The stock, consisting of palms, arancarias and similar decorative stock, was certainly very fine, and prices obtained ought to satisfy the growers well. Among the large buyers was Mr. Wm. Doogue, Supt. of Public Grounds at Boston.

Mr. A. Dimmock, representing Sander & Co., of London, arrived on steamer Servia, September 26, and is full of enthusiasm over the grand new orchids which are to astonish Americans the coming season.

Among other arrivals from abroad are Mr. Chas. Thorley and Mr. H. A. Siebrecht, both of whom are men who keep their eyes open and will doubtless have something novel to show in the retail line when the proper time comes.

Messrs. J. H. Small & Sons, of Washington, D. C., are reported to have secured a location here on Broadway where they propose to open a large branch establishment.

Thorley's window just at present is radiant with Cattleya Bowringiana,

Odontoglossum grande and other seasonal orchids.

Joseph Schneider, for several years foreman for Geo. Kruse, at 47 Bostwick avenue, Jersey City, having recently given up his position to start in business for himself, was arrested on September 24 charged with having stolen a lot of cuttings and plants from his employer for the purpose of stocking up his own house.

Mr. J. Condon, of Brooklyn, has been catering to the curiosity and pleasure of the public with a century plant in bloom, which has, as usual, proved a potent attraction.

The "wonderful plant" fiend has broken out again, this time in the New York World. The subject of his voracious tale is a plant which catches and feeds on live fishes. The location of the phenomenon is conveniently placed in the South China Sea, and the romancer "regrets being unable to name either the plant or the fish."

Philadelphia.

The wholesale seed and bulb men say that business is excellent and many of them are working far into the night to get their orders out.

Lilium longiflorum is very scarce, in fact there is practically none to be had. Orders were taken on the basis of last year's crop, which this season has proved a failure, as bulbs instead of increasing in size have split up and are too small to be marketable; only about 20 per cent of orders are being filled. The stock of Harisii is also not up to the mark; 7 to 9 inch and above are all sold, in fact in some instances orders are only partly filled with this size, while even the 5 to 7 inch are becoming scarce and poor.

For the past year or two lilies have not grown as well as formerly in Bermuda, but no one seems to know the reason. Some suggest that they may be grown in the same fields year after year, and think that if other crops were rotated between and the bulbs given new ground each season the results would be more satisfactory.

There was a light frost, the first this season, on the evening of Sept. 29th. No damage was done, but things are being moved under shelter a little faster. Jack has been very good to us this season, for there have been times when he has come in without knocking, making himself a most unwelcome guest.

Roses are getting poor; the first crops seem to have bloomed out, and this together with the mildew brought on by the cool nights has told on the quality of the stock. The large growers have not as yet been heard from; the most of them do not let their roses flower until business seems to have set in for good and sales are reasonably sure.

Prices are about the same as last week, with the exception of Beauties, which sell readily at from 10 to 15. Good asters are in demand and would sell readily, but they are about all cut out, and as it will be some time before the "mums" appear, the market will be bare of bulky flowers; in fact roses and carnations comprise the stock of the average florist these days and the divine flower does not make much show of its divinity as yet.

A light demand for ferns has sprung up and it is found that adiantums are scarce. We hope the stock will be replenished in some way before long, as Adiantum cuneatum is the one fern of all others to make the table fernery a thing of beauty.

Fred Ehret, the up-town commission man, is getting in some fine Beauties. It was thought at one time that there was

not enough trade for a house of this kind so far out of the center of the city, but the business in this section has increased so fast that Mr. Ehret finds it difficult at times to supply the demand. All the stores up town report the outlook bright, with an increasing demand for well grown plants and flowers.

Mrs. Pegge of Howard and Somerset street has built a store and show room which is quite an addition to her establishment and will enable her to better handle the increasing business.

Mr. Marcon of Steele Bros. & Co., seedsmen of Toronto, was in town last week.

Mr. Bogan, 54th and Greenway avenue, has added a house 20x80 for carnations. His plants have done very well outside the past summer and the prospect for a good crop of flowers this winter is very promising.

Capt. Westcott's team had to lower their colors again last Thursday night and have about come to the conclusion that they had better let the Washingtonians alone; they were defeated in a match of three games by 171 pins. Kennedy of the Washingtons was No. 1 with 504 pins, having made 210 in his last game.

K.

Chicago.

The annual meeting of the Horticultural Society of Chicago will be held in the club room of the Grand Pacific Hotel at 3 p. m., Saturday, October 8. At this meeting officers for the ensuing year will be elected and much important business in connection with the chrysanthemum show transacted. At a recent meeting of the executive committee of the society Mr. J. A. Pettigrew was selected as manager of the exhibition, Mr. J. T. Anthony, the manager of former exhibitions having first promised his advice and assistance, though declining to further act in the capacity of manager.

A meeting of the stockholders of the Chicago Cut Flower Exchange has been called for next Saturday, the 8th inst., at 10 a. m., at the Sherman House. At this meeting a Board of Directors will be elected.

The "Royal Florist Co." is now a candidate at 85 Lake street.

The contract for supplying the decorations for the grand ball and banquet to be held at the Auditorium in connection with the dedicatory ceremonies of the World's Fair has been awarded to Messrs. P. J. Hauswirth and Joseph Curran, the order being divided between them. It will amount to about \$2,500. The decoration will be almost entirely loose flowers and plants, with the exception of the draping which will be of wild smilax. The "Columbian colors"—yellow and red—will be used throughout. The festooning of smilax will be caught up and tied with ribbon of these colors also. There will also be a great many smaller affairs on during dedication week and all the florists promise to be as busy as bees.

So many of the florists will be too busy to even sleep during this week that the Florist Club committee on banquet have about given up hope of being able to get together a respectable gathering at that time, and at the next meeting of the club will recommend that the affair be postponed.

Ilcnry Bornhoft has opened a floral store at the corner of Fullerton avenue and Halsted street, North Side.

There is no special change in the flower market. Roses are still plentiful and very good, Beauties, La France and Perle

being particularly fine. Carnations are much improved. A few Buttercups are in, but they are of medium quality; Nancy Hanks, which is a popular variety, is improving in quality. White carnations are generally good. The single violets now coming in are the Czar; they are very good. A few double violets are being gathered, but they are not plentiful.

Outdoor stuff is very limited; gladioli is at an end, and the dahlias are failing—they have fallen off in both price and quality. Some good outdoor chrysanthemums are received; they are some of the fine old Chinese hardy sorts, now so little grown here. It is hoped that they will be more plentiful within the next two weeks, as there will be a large demand for yellow flowers at the time of the dedication ceremonies. The quantity of smilax is fully up to the demand. Business is growing more active.

Baltimore.

Three new active members were elected at the last club meeting and two associate members. The first matter to bring out a free discussion was the proposal to exhibit bulbs at the chrysanthemum show. After considering it long enough to get the general opinion of the club, bulbs, florists' supplies, etc., were ruled out by a motion to exclude everything from the exhibition not belonging to classes for which premiums are offered. The club has had in mind for a long time the plan of building or buying a hall, and a committee was appointed to look up the project. That committee, through their chairman, reported a very desirable building, and the hope of the boys now is that the next time the S. A. F. comes east we shall be able to welcome any who stop in Baltimore in our own home and our own bowling alley. There seems no doubt that it would benefit the membership in many ways and be a financial success. The consideration of the project took up some time, after which the question box was opened. "Has any member tried Climbing Perle?" Mr. Tischinger had, and liked it, and purposes planting more; good color, size and shape.

"Is there any remedy for violet disease?" Mr. Wiede quoted Mr. Jno. Cook to the effect that dew caused it. Mr. C. M. Wagner thought that plants had received some check or they would not have it. Mr. Biddison had seen a house kept clean till a month ago, when the plants all went to pieces. Mr. E. A. Seidwitz had purchased northern grown plants and kept shaded all summer; when cooler weather came, left off shade at night and spot developed. Plants not exposed at all were free from the disease. Mr. Erdman always watered at night and had not a speck of disease. Mr. Wagner had planted out in broiling hot sun, watered freely at all times, and had no disease. Mr. Riess keeps his out in the sun and has the disease on them. Mr. C. Hess said his brother at Cockeysville shades until noon, opens to sun after that; no disease. Mr. Bauer has his shaded, and no spot. On the whole the discussion seemed to indicate the disease as prevailing without regard to the shading or watering during daytime, and no one could suggest a certain remedy or preventive of the "spot."

"Names of best twelve hardy shrubs?" was the next question, and Mr. McRoberts answered with the following, though he said there were many others that were very good: *Hydrangea paniculata grandiflora*, *Hydrangea quercifolia*, *Viburnum*

plicatum, *Deutzia gracilis*, *Deutzia crenata*, *Exochorda grandiflora*, *Spiraea Keesii*, *Spiraea prunifolia*, *Porsythia viridissima*, *Weigelia rosea*, *Weigelia alba*, *Philadelphus coronarius*.

"Has any member tried coal tar for putty?" Mr. F. Thurley had a neighbor who used it and thought it better in every way than putty.

As an addition to the already large list of special premiums Mr. Ed. Abell offers a first and second of \$30, and \$20 for a bridal canopy.

Business continues on the mend. Some of the buds that come in to the Exchange are as fine as winter grown ones.

Sam'l Feast & Sons have fitted up their store, always a model of tasteful arrangement, with electric lights, and a very sensible thing it is to do, for more good flowers and plants are ruined by gas than by all other causes in the stores in winter. We are coming along; we shall have stores to turn our Washington brethren green with envy yet, though far behind them in that respect at present.

MACK.

Syracuse, N. Y.

The state fair held here from September 8 to 15 was a great improvement on previous ones, especially as regards the show of horticultural products. There was a larger and better display of plants and flowers than has ever been seen here; the arrangement of the large tent was very artistic and reflected great credit upon Mr. Bishop, the park superintendent who has this section in charge. The palms and foliage plants were staged in circular groups and the side benches made to conform. Messrs. P. R. Quinlan & Co. carried off all the first prizes in many classes. Their collections of palms, foliage plants, flowering begonias, ferns, etc., were remarkably good. Their funeral design "Heavenly Portals" was a grand piece and was awarded first prize. A decorated mantel by the same firm was very artistic.

Mr. Campbell, gardener to Mayor Alex H. Davis, staged a very fine group of palms, foliage plants, etc., and carried off second, however. Mr. G. Ham, gardener to the State Asylum for Feeble Minded Children, also had a fine collection. Mr. Jos. Huller, one of our enthusiastic amateurs, won several prizes. The Central New York Horticultural Society carried off two first prizes for fruit; although this is an off year they managed to get together some remarkably fine fruit, and had 27 species, filling nearly 800 dishes. The members all worked with a will and helped the energetic president, A. D. Perry, a great deal. Still to him mainly belongs the honor of winning the prizes. A large banana tree with fruit, pines, fig and orange trees in bearing condition were shown. They attracted a great deal of attention. The members took turns each day to explain the culture, etc., of the fruit. Many people told the writer that the collection of fruit and the information given was worth the money paid to see the whole fair.

On the night of the 13th a heavy gale sprung up and demolished a great many tents, the worst to suffer being the fruit and flower tents. The damage to the plants was very heavy; Messrs. Quinlan & Co. estimate their loss at from \$1,500 to \$2,000; other exhibits suffered in proportion. The fruit was greatly damaged and badly mixed up. The State Agricultural Society will build permanent buildings for next year's show. Active prepar-

ations are being made for the chrysanthemum show to be held in November; the date has not yet been decided upon.

H. Y.

Rochester, N. Y.

The floral display at the Western N. Y. Fair, October 26-30, was very good indeed. The spiral arrangement in the two tents combined was effective and artistic. In the trade exhibit the Messrs. Keller did themselves great credit in palms, general collection of stove and greenhouse plants and a good show of orchids. Their begonias were a notable lot, both as to quality and variety. Some of the new sorts, displayed for the first time, attracted great attention and will doubtless prove valuable to the trade when generally known. I also notice with this firm a climbing *Papa Gontier* rose, after the same habit as climbing *Perle* and *Niphetos*. It originated from a "sport" same as the other and will be useful where a climber is wanted.

The Kimball collection of stove and greenhouse plants, orchids, water lilies, pitcher plants, etc., represented by Mr. Geo. Savage, was a grand addition to the fair and a great educator to the general public. The Vick collection of dahlias and gladioli was greatly admired as usual. Another firm exhibited them, having this branch of the business in their charge, I understand. Ellwanger & Barry exhibited H. P. roses in good condition for this season of year, and excellent perennial phlox. In design work the Florists Keller had all first premiums. The amateurs were out in full force with close competition.

I met the genial Geo. Savage at the Kimball houses. He has everything in apple pie order. Orchids, the specialty, are in splendid condition, and the aquatic house full of bloom, and a great novelty to visitors. An excellent feature of this place heartily to be commended is allowing visitors, rich and poor alike, free access to all the specialties. As a result Rochester is educated up to a high standard in the floral art. Orchids and the like are no more a luxury to be dreamed of, but an actual necessity, and will be so more and more; at the same time the rose will hold its own, there is no rivalry. Compare popular music with the classical for a simile.

GROVE P. RAWSON.

St. Louis.

The weather is still warm and dry. Outdoor stock is about gone. Dahlias are being badly eaten by grasshoppers. Roses are very good; Beauties are good and plentiful; Perles are unusually fine. The stove plants, palms, pandanus, ficus, cacti, etc., that adorned the grounds of the Botanical Garden during the summer have been moved to their winter quarters. Mr. Gwynn, executive commissioner of the Missouri World's Fair board, left the city Friday night with a carload of plants, which will constitute a part of the Missouri exhibit. The following plants, which composed the greater part of the lot, were loaned to the State Board by the Missouri Botanical Garden:

One *Cocos Romanzoffiana* 45 feet high, one *Seaforthia elegans* 10 feet high, one *Agave Americana*, one *A. Americana variegata*, one *Rhapis flabelliformis*, six *Musa sapientum*, six *Lantana borbonica*, one *Corypha australis*, two *Pandanus utilis* five feet high, two *Ficus elastica* nine feet high, six smaller *F. elastica*, two *F. indica* eight to ten feet high, two *F. nitida* eight feet high, one *Citharexylum*

quadrangulare four feet, two *Phyllanthus nivosus*, four *Hibiscus rosa sinensis* four to five feet high. The plants are all fine specimens and have all been grown at the garden from seeds or cuttings. Mr. Schray furnished a few fine specimens of *Ficus elastica* and *F. nitida* and several species of the beautiful *Araucaria*. Other St. Louis florists should do likewise.

J. C. DUFFEY.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXXIII.

WARRANTY ON SALE.

You ask me to define exactly what a warranty on sale of merchandise is and is not.

In your business there is often an implied warranty. For instance, if you sell me flower or vegetable seed you could, even if you did not open your month or print or write a word on the package, he held to guaranty it to be the seed asked for by me and there would be an implied warranty that it was alive and would germinate.

But let me define a warranty for you: It is any direct and positive assertion as to the quality of the merchandise sold me. You need not use the words: I warrant those seedlings to be so and so; or I guaranty that that seed will produce double flowers; or I solemnly engage that those slips are such and such a species of flower; but you must be positive and unconditional, and above all you must not express a mere opinion.

The main point is whether you seek to influence the buyer or not by representing to him that he is purchasing a certain specified grade or quality. A mere expression of opinion is not equivalent to a warranty.

You will say: Everyone is delighted with the fruit produced by these plants; or there is no prettier flower in the world than this variety of chrysanthemum; or I'm sure you'll be pleased with the brilliancy of these verbenas.

Above all, don't let a customer think he is getting a warranty when he is not. Be honest with him. Add qualifying words. For instance, say: Properly cared for, or with the right soil, or under glass, or with a southern exposure, etc.

You see your business is a peculiar one. If I buy woven goods I can tell at a glance whether they are wool or cotton, but how am I to tell whether a certain kind of flower seed will grow or not merely by looking at it.

If a dealer puts the words: "We guaranty our goods" on the package the law will hold him to it. A warranty need not be in writing, although of course it may be.

The law will not permit a man to print representation as to the quality of his goods on circulars or in advertisements without holding him to the warranty. Nor would he be permitted to say that he merely wished to induce people to buy. If the purchaser was willing to swear that he believed the advertisement to be true he could recover in case the goods turned out to be different from what they were represented.

In all cases when the purchaser is not able to examine the goods, as for instance when you sell "to arrive" or "in transit," or "in storage," then the law will hold you strictly to warranty even if you don't open your month. If there are no samples shown then the merchandise must be as good as is usual in sales of similar goods under similar circumstances,

In all these cases the implied warranty is absolute. The goods sold must conform to sample, or in absence of sample to representations made, or in absence of either to customary sales in that line.

Now when a specific kind or species of seed or flower is ordered and the order is accepted and filled by you there is an implied warranty that your merchandise comes up to the standard and the purchaser has the right to return the goods or keep them and sue for damages, which of course would be a rebate in the invoice price. In fact, an implied warranty follows in all such cases and will be strictly construed against you.

The safest course for you to follow is to make as few absolute warranties as possible. With your business as with others' the buyer has his eyes open and is generally able to judge for himself. If he is purchasing a bill of cut flowers displayed openly on the counter, the old rule of "Let the purchaser be on his guard" would apply.

But suppose he were to ask for English violets and you took out of your ice box a number of bunches and said: "Here are some fresh English violets." "But they have no odor," he says. "Yes," you answer, "that is because they have been in the ice box; once in a warm room their odor will become at once perceptible." This would undoubtedly be a warranty and you would be held to it.

But in some cases the law would go still further. Suppose for instance a young lady enters your store and asks for an assortment of autumn leaves. You sell her a lot and among them there happens to be a sprig of poison ivy. She is poisoned and sues for damages. I think she could recover. Every man should know his business well enough to prevent such accidents.

Now there is a phase of this question of warranty to which I desire to call your attention. It is this: No matter whether you warrant goods or not, if the sale is tainted with fraud you may repudiate, provided you do so at once upon discovery of the fraud. But bear in mind that a mere concealment of a defect in the merchandise is not fraud. There must be an intent to deceive and that intent must be followed up by some act plainly intended to further the desire to defraud.

I must say that as a general rule there is no implied warranty on sales except where you can't see the goods. You must see the reason of this: Unless goods are equal to a warranty they are not the goods you bought, and no title has passed, while if a purchaser enters your place of business and selects the articles himself, the title passes the moment he has laid his money down and taken up the thing purchased.

In your business it often becomes necessary to print words amounting to a warranty on packages. Be careful and not say too much. Let the vendor of quack medicines enjoy the fruits of his universal warranty. They are warranted to cure all the diseases to which flesh is heir to. Therefore I would say, add a qualifying clause such as this: "With proper care and cultivation," etc. "Warranted in all cases when accompanying directions are followed."

In conclusion, let me impress upon your mind that the safest warranty is the excellence of the article itself. A man will travel miles to find what is commonly known as "reliable goods." A well known seedsman was once asked to warranty some seed that he was selling. He refused to do so, saying that he had been selling that seed for forty years and that

possibly this batch might grow downwards instead of upwards.

UNCLE BLACKSTONE.

SEVERAL communications received lately cause us to again suggest the need of some exact written agreement between employer and employed, so that each may know exactly how he stands should any disagreement arise. It is an old piece of advice, but one which never loses its point.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

SITUATIONS, WANTS, FORSALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words each insertion). Cash must accompany order. Flunt ads. not admitted under this head.

SITUATION WANTED—By a young man, single, 25, on a private or commercial place; thoroughly understands the business; honest, upright and strictly sober; a first-class man. Address: WATGUL, care American Florist, Chicago.

SITUATION WANTED—As gardener; private place preferred; or charge of park grounds. Good references furnished. Only good permanent position accepted. State wages, etc. Address: R. WASHINGTON, 264 Vernon Ave., Chicago.

SITUATION WANTED—By a single man, age 35, in private or commercial place; 8 years' experience in England and America; under glass. First-class references. State wages. Address: M. ALBAAN DER, 40 Bradley St., Watertown, N. Y.

SITUATION WANTED—By a first-class florist and gardener as foreman in a general nursery or private place; thoroughly understands his business in all the branches; 22 years' experience; married, no child; age 43. Address: T. A. K., 35 Green St., Rising Sun, Philadelphia, Pa.

WANTED—A good all round florist; single man preferred. W. S. SAWYER & CO., Lincoln, Neb.

WANTED—Florist to take charge of small commercial place, either as lessee or foreman. Address: T. L. SYDNOR, Danville, Virginia.

WANTED—Florist experienced in selling cut flowers and designing for a floral department in a dry goods store. Address: SYNDICATE TRADING CO., 139 Franklin St., New York.

WANTED—A practical florist to take charge of a private place, \$15 a month and house. No children. Address: care American Florist, Chicago.

WANTED—Man who understands growing terms, orchids and palms. Must be free from drink. Answer, stating references and address: R. A. MENDENHALL, Minneapolis, Minn.

WANTED—Competent nurse as foreman in our wholesale seed department; must be experienced, and have knowledge of receiving, shipping and caring for stock. Address: L. E. MAY & CO., St. Paul, Minn.

WANTED—Gardener. Good, steady, sober, competent, willing to work man wanted, to come at once. Let me hear from such a man needing a place at once. W. H. SANFORD, Thomasville, Ga.

WANTED—A young man as salesman and to make himself generally useful in a flower store. Address: N. E. COR. 4th St. and Madison Ave., New York.

WANTED—Hot water boiler to heat 4000 feet glass; also 2-inch pipe. Hichings, Carmody or Furman preferred. Must be cheap and in good condition. W. R. L. DOW & CO., New Petersburg, Highland Co., O.

WANTED—A young man that has some experience in growing cut flowers and bedding plants. Must be single man to board on the place. One that can speak German and English. State wages. Address: A. MIDDLEBUSH, Milwaukee, Wis.

FOR SALE—All or part interest in an old established florist business in Chicago. Plant consists of 11 new houses; 30,000 square feet under glass. Have just rebuilt. Houses all filled with new stock; 5 acres of ground; retail store in city with good house and location. Address: G. H., care American Florist.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and tented by steam; grampy 80 feet long just coming into bearing; recently built; 20 acres of land; abundance of fruit; large house containing 15 rooms, new barn; within 25 miles of Philadelphia and one mile from station. Will be sold on account of ill health. Possession any time. Address: ISAAC LARKIN, Toughkenamon, Chester Co., Pa.

FOR SALE.

In Andover, Mass., 5 greenhouses and 2 acres of land. Houses stocked with roses, carnations, violets and chrysanthemums. Andover is 7 miles from Boston; heavy rains. Ill health the reason for selling. Address: BOX 372, ANDOVER, MASS.

CARNATIONS.

	Per 100
1000 Tidal Wave.....	\$6.00—\$8.00
1000 Grace Wilder.....	6.00—8.00
1200 Portia.....	6.00—8.00
1000 Silver Spray.....	6.00—8.00
500 Mrs. Fisher.....	6.00—8.00
1000 Hector.....	7.00—9.00
1000 Golden Gate.....	7.00—9.00
500 L. L. Lamborn.....	7.00—9.00
800 Lizzie McGowan.....	8.00—10.00
200 J. J. Harrison.....	8.00—10.00

The above are nice Field Grown plants.

STOCKY AND HEALTHY.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 5 miles East of Kansas City, Mo.

AURORA

AND OTHER

Carnation Plants

FROM THE FIELD.

Send for price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

10,000 CARNATIONS.

Garfield, Hinze's..... \$5.00, \$7.00 and \$ 8.00.
ROSES—Albany, La France, Marnet and Sa-
frano, from 3-inch pots..... 6.00
Albany, La France and Wootton, from 2 1/2 pots..... 6.00
Bride, Marnet, Safrano and Bon Silence, 2 1/2-
inch pots..... 2.50
Asparagus Teuissimus, 2 1/2-inch pots..... 8.00
Dracena Ludwisi, 3 1/2-in. pots., \$1.00 per doz., 8.00
Fern Pteris Serrulata, 3 1/2-in. pots., \$1.00 a doz., 8.00
" " " 2 1/2-inch pots., 0.50 a doz., 4.00
Orevillea Robusta, 15 to 18 in. high, \$2.00 a doz., 15.00
Pandaunus Utilis, 4-inch pots, strong., \$5.00 per doz.

NATHAN SMITH & SON,
Adrian, Mich.

Field Grown

CARNATION PLANTS

AND
TUBEROSE BULBS.

CHAS. T. STARR,
Chester County, AVONDALE, PA.

CARNATIONS

Field Grown.

3,000 HINZE'S WHITE, at \$6.00 per 100.
Send cash if you want them in a hurry.

J. A. TRACHT & SON,
GALION, O.

CYCLAMEN PERSICUM GIGANTEUM

3 1/2-inch pots, showing bud, \$8.00 per 100.

CARNATIONS, Field grown.

LIZZIE MCGOWAN, MRS. FISHER, PORTIA
J. J. HARRISON, and others. Price \$7 per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

When writing to any of the advertisers
on this page please mention the AMERICAN
FLORIST.

ROOTED CUTTINGS.

Carnations, Geraniums and Petunias.

CARNATIONS.

Of these I offer a very select list, containing only those that are profitable for cut flowers. It does not pay to grow everything. I try almost all of them and give you the benefit of the trial. Let me have a chance to price your orders.

GERANIUMS.

Ready now, a choice assortment of the best bedding varieties, that is sure to give satisfaction. Labeled they are \$2.00 per 100; without labels \$1.50 per 100.

PETUNIAS.

An entirely new set, selected from a large lot of seedlings; they are exceptionally fine. Price for the Doubles is \$3.00 per 100; for the Singles \$2.00 per 100. Stock of these is limited.

LIST READY NOW. SEND FOR IT.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

CARNATIONS.

Field grown, very large plants of
GARFIELD and PORTIA,
at \$10.00 per hundred.

CHAS. W. REIMERS,

329 Fourth Avenue,

LOUISVILLE, KY.

20,000 CARNATION PLANTS.

We offer fine FIELD GROWN PLANTS of the following varieties:
PRIDE OF KENNETT, LAMBORN, HINZE'S WHITE, PORTIA,
MRS. F. MANGOLD, GARFIELD, MRS. CARNEGIE, ROSALIND,
HINSDALE, WM. SWAYNE. Price, \$6.00 per 100; \$8.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS. VIOLETS.

20,000 fine, stocky, field grown plants.

	Per 100
ORANGE BLOSSOM.....	\$10.00
MAY FLOWER, fine fancy.....	7.00
SNOW BIRD, white.....	5.00
WHITE WINGS.....	5.00
WEST END, pink.....	5.00
TIDAL WAVE.....	6.00
GRACE WILDER.....	5.00
HINZE'S WHITE, extra fine stock.....	5.00
LIZZIE MCGOWAN.....	6.00
MARIE LOUISE VIOLETS.....	8.00

The above all fine healthy plants.

ADDRESS **E. B. JENNINGS,**
Lock box 254 SOUTHPORT, CONN.
CARNATION, VIOLET AND PANSY GROWER.

CARNATIONS

30,000 field grown plants. Stock fine,
healthy, bushy plants.

	Per 100
Hinze's White.....	\$ 5.00
Orange Blossom.....	10.00
Snow Bird.....	6.00
Lizzie McGowan.....	6.00
Mayflower.....	6.00
White Wings.....	5.00

Fine strain of Pansies, \$5.00 per 100.
5,000 Marie Louise Violets, \$5.00 per 100. Extra fine plants, free from disease.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. GREEN'S FARMS, CONN.

NANCY HANKS

beats them all, both

HORSES AND CARNATIONS.

Shade of the popular Grace Wilder but of stronger growth. Field grown plants of these and Day-break; also 35 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

WATER LILIES.

SPECIAL TRADE LIST OF PLANTS,
DORMANT TUBERS AND SEED FREE
ON APPLICATION.

WM. TRICKER, Dongan Hills, S. I., N. Y.

CARNATIONS, FIELD GROWN.

GOLDEN TRIUMPH,

and other varieties. Send for list with prices.
A few hundred second size plants of Golden Triumph at a reasonable price.

E. T. LOMBARD, Wayland, Mass.

CARNATIONS

Field grown plants, \$6 & \$7 per 100.

**GRACE WILDER, SILVER SPRAY, HEC-
TOR, MRS. FISHER, ANNA WEBB,
HINZE'S WHITE, ETC.**

GEO. E. BUXTON, Nashua, N. H.

TO THE TRADE.

My Rooted Cutting Stock for the coming sea-
son includes over 30 VARIETIES CARNATIONS
and 25 VARIETIES COLEUS, a select list, novel-
ties and standard sorts, all in first rate shape.
Can supply Coleus any time, and will be glad
to book orders for Carnations.

ALEX. MCBRIDE, Alplaus, N. Y.

CARNATIONS

A fine lot Carnations, field grown.

For sale cheap.
Hinze's White, Silver Spray,
L. L. Lamborn, Grace Wilder,
Hector, Cronson King,
American Flag, Portia,
Tidal Wave, Algathere,
\$8.00 per 100. Cash with order.

W. M. ELDRIDGE, 11 S. Franklin St., Wilkes Barre, Pa.

Cheapest Plants in the Country

ROOTED CUTTINGS OF CAPE JASMINE, ETC.

Cape Jasmine..... \$1.00 per 100; \$8.00 per 1000
Euonymus, three best colors, 2 1/2-in. pots, \$4.00 per 100
10 per cent. discount on large lots.
Fancy Leaved Caladiums, nice plants, 2 1/2-inch pots,
\$5.00 per 100.
Palms and other foliage plants, large size, very cheap.
I will also exchange the above for winter flowering
bolls.

F. J. ULBRICHT, Florist,
P. O. Box 655. ANNISTON, ALA.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Boston, Oct. 4-6—Annual exhibition fruits and vegetables, Mass. Hort. Society.
New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm. Plumb, mgr. of exhibition, Madison Square Garden.
Philadelphia, Nov. 1-10—Chrysanthemum show, Pennsylvania Hort. Society, D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Gall, Ont., Nov. 9-10—Chrysanthemum show Galt Hort. Society, Edward Lane, Sec'y.
Toronto, Oct., Nov. 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 9-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, sec'y, 4101 Pennsylvania Ave.
Hartford, Conn., Nov. 8-10—Chrysanthemum show, Hartford County Hort. Society. Julian S. Allen, Sec'y.
Boston, Nov. 5-11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 5-11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.
Milwaukee, Wis., Nov. 8-11—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. A. W. Bennett, Sec'y, 105 Wisconsin St.
Minneapolis, Minn., Nov. 8-11—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 W. Lake St.
Worcester, Mass., Nov. 9-10—Chrysanthemum show, Worcester Hort. Society. E. W. Liscola, Sec'y.
Montreal, Nov. 9-11—Chrysanthemum show Montreal Gardeners' and Florists' Club. H. Stocking, Sec'y, 230 St. Denis St.
London, Ont., Nov. 9-11—Chrysanthemum show London Gardeners' and Florists' Society. Wm. Cummage, Sec'y.
Washington, Nov. 15-17—Chrysanthemum show Washington Florists' Club. G. W. Oliver, Sec'y, 184 8th St. N. W.
Baltimore, Nov. 15-18—Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4203 Forbes St., Pittsburg.
Cincinnati, Nov. ————Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Pittsfield, Mass., Nov. ————Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. ————Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
Bay City, Mich., Nov. ————Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.
Pittsfield, Mass., Nov. ————Chrysanthemum show Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y.
Providence, R. I., Nov. ————Chrysanthemum show R. I. Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Sent \$2.50 f. o. b.
I. HORACE McFARLAND, Harrisburg, Pa.

NEW CAPES

Arrived. Prices on application.

H. BAYERSDORFER & CO.,
56 N. 4th St., Philadelphia, Pa.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

Roses.

MERMETS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN AMI, MME. CUSIN, WAHAN, ROX SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.

From 3-inch pots, \$5.00 per 100; \$75.00 per 1000.
2 1/2-in. pots, \$8.00 per 100; \$15.00 per 1000.

CARNATIONS.

Strong, healthy, fine grown plants.

Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Portia, Mrs. Fisher, Hector, Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$70.00 per 1000.
2nd size, \$6.00 per 100; \$50.00 per 1000.

PURITAN, best new white.

GOLDEN TRIUMPH, Yellow.

AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.

Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

Per 100
EMILY PIERSON, new scarlet.....\$15.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00

MRS. FISHER.....7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,
in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. ROSE.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is very strong, healthy grower, with beautiful foliage, nearly every shoot producing a flower on long erect stems, of ivory whiteness and beautiful shape. I have a house full of which it is admired by every florist. My stock comes direct from the originator.

Price of Plants in 3-inch pots,
\$5.00 per dozen.

Price on larger quantities on application. Cash with the order.

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS.....\$30.00 per 1000

HYBRIDS.....40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

Roses in Variety.

Hybrids. Teas and Ever-bloomers

A few thousand Thos. Hogg, Hortensis, Hortensis var. and paniculata grandiflora Hydrangeas, in 2 1/2-inch pots, are in prime order to report into 4-inch pots. Price \$5.00 per 100; \$40.00 per 1000.

Primulas, single, 2-in. \$6, 3-in. \$8 per 100.

FERNS: Adiantum princeps, 6 and 7-inch pots, \$10.00 and \$15.00 per 100.

We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

THE NEW ROSE BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSE

ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,

Wynndoor, Chestnut Hill, Phila., Pa.

DAN'L B. LONG,

COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING IN LBS. FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS,
Lists, Terms, &c. on application

HARDY CUT FERNS

MOSS (SPHAGNUM AND GREEN SHEET.

A 1 IVY LEAVES,
BOUQUET GREEN AND FESTOONING of all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chatham Place. BOSTON, MASS.

CUT SMILAX.

Summer prices, 15 cents per string. Special attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers and Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.
Open Day and Night. Sunday until noon. Consignments Solicited.

WHOLESALE
FLORISTS

N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

© Wholesale Markets.

Cut Flowers.

	NEW YORK, Oct. 4.
Roses, Perles, Sunsets, Gontiers.....	1.00c 2.00
Mermets, Brides, Niphets.....	2.00c 3.00
" Watteville, Hostes, Bennetts.....	2.00c 3.00
" La France, Albany.....	2.00c 4.00
" Beauty.....	5.00c 20.00
Carnations.....	1.00c 1.25
Valley.....	4.00c 6.00
Adiantum.....	1.00
Smilax.....	12.00c 15.00
Asparagus.....	50.00

	BOSTON, Oct. 4.
Roses, Niphets, Gontier, Wootton.....	1.00c 3.00
" Brides, Mermets, Waban.....	2.00c 4.00
" La France, Metcos.....	2.00c 5.00
" Perle, Sunset.....	2.00c 3.00
Carnations.....	1.50c 2.00
Tuberose.....	1.50c 2.00
Valley.....	4.00
Asparagus.....	50.00
Adiantum.....	1.00
Smilax.....	12.00c 15.00

	PHILADELPHIA, Oct. 4.
Roses, Bennetts.....	12.50
" La France, Albany, Mermets, Brides.....	3.00
" Pierre, Gontier.....	3.00c 4.00
" Marie, Gontier, Perle, Niphets.....	3.00c 5.00
Valley.....	6.00
Carnations.....	1.00
Rouvard.....	2.50c 3.00
Tuberose.....	2.50c 3.00
Single violets (bunches).....	3.00
Smilax.....	15.00c 25.00
Adiantum.....	1.00

	CHICAGO, Oct. 4.
Assorted roses.....	3.00c 4.00
Am. Beauty.....	8.00c 12.00
Carnations.....	1.00c 1.50
Violets, single.....	1.00c 1.50
Chrysanthemums.....	2.00c 3.00
Smilax.....	15.00
Asparagus.....	15.00
Gladions.....	1.00c 5.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
— WHOLESALE. —
67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Mule Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
— WHOLESALE —
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR,
— WHOLESALE —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.
The finest Roses, Violets and Carnations.
Branch, at Cut Flower Exchange, 408 E. 34th St.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SEND FOR A COPY
— OF OUR —
TRADE DIRECTORY
AMERICAN FLORIST CO., CHICAGO.

☉Re Seed ☉rade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

Quarantine of Seeds.

In an interview held with Assistant Secretary of the Treasury, O. L. Spaulding, at Washington, referred to in our last issue, the Assistant Secretary stated that if any parties interested in seeds or plants delayed or in danger from quarantine regulations would notify him, giving the name of the vessel on which the goods were imported, he would do all he could to aid the seedsmen and florists in the matter and was inclined to believe that no further trouble would be experienced. This should be borne in mind as the acting secretary will unquestionably be able to take prompt action if required.

MR. G. A. BROWN of the Sioux City Nursery & Seed Co. died in Sioux City September 20. The body was taken east for burial at East Kingston, N. H. Mr. Brown has been a very active and capable member of this firm during the few years he has lived at Sioux City and had built up a large trade in his department.

NOT TRUE.—The statement published in these columns in a recent issue regarding the giving up of the vegetable seed trade by T. W. Emerson & Co. of Boston proves to have been without foundation, for this firm has no intention of abandoning their vegetable seed department and are in it to stay.

THE M. G. MADSON SEED CO. has been incorporated at Manitowoc, Wisconsin. In the firm are Mr. Cornelius Madson and Mr. L. G. Clark.

The Farmer and the Truck Patch.

For centuries it was generally believed by those who dwell in town that farmers ate large quantities of cream and that their gardens were full of every conceivable fresh vegetable and fruit. This theory has been exploded with a loud and reverberating report.

Farmers eat less cream than the pale and seductory but scholarly green goods dealer, and the poor people of the busy marts of trade have more fresh vegetables, except when they are in the country on their regular fresh air fund vacation, than the farmer does. Farmers as a class have to grow their crops for market, and they are in luck if they can market them. If they can not market them of course they can eat them, but not otherwise.

Of course in these calculations we do not consider the agricultural freak known as the fore-handed farmer, but rather the rank and file—the mass, as it were—of those who are seeking to wring from a reluctant and buggy soil bread for the eater, seed for the sower, wool for the wearer, meat for the eater and soup for the souper.

The farmer obtains more advice and example than most anybody else. Those who fear that they may not succeed as ragpickers in town still know that they can succeed on the farm if the worst comes to the worst. Even the man who picks up the stubs of costly cigars in front of the Authors' club by means of a gold-headed cane with a brad in the end says to himself at night: "Voilà! It matters

not. Tray beyant! If I fail at this the clover-scented fields are awaiting me. Negotiation negotium! I may at least buy a cow and raise virus for vaccinating purposes on the farm." Even the sore-eyed beggar who haunts the busy marts says over and over again beneath his awe-inspiring breath: "I am not at the bottom yet. I still live in town. If I fail mentally I may still be a farmer."

But is there no way by which we as farmers may at least get a percentage of the vegetables that grow on the face of the earth? "How I pity the people," says Mr. T. Greiner, "who from choice or necessity are confirmed eaters of hog, and the murderous monotony of whose scrupulous diet is not broken or offset by the gratifying changes which the home garden affords." I have this season grown the plainer vegetables with great success, and though some of them have cost more than I could wish I hope to reduce the expense by another year so that I will feel it less.

We should not give up too easily in trying to raise vegetables. Canned corn is better than nothing, but corn grown on the place is far better. So it is with all other truck. An acre will keep a large family in vegetables and produce some to sell. I could not sell any this year, but next year if I can raise a few extra vegetables and sell them at what they have cost me this year I will buy a billiard table and fit up a dive in the barn so that the boys will not yearn to leave the farm.

I notice that we should take more care to have our vegetables early. The earlier you can have your vegetables ready in the spring the more notice they will attract. I surmised this myself this season, but my cold frame was a shade too cold, I presume. At least when my vegetables were ready for the market they created no excitement. Again I erred in selecting the site for my garden. I chose it because it had a good view of Mount Pisgah, and in doing so forgot to choose a place that was arable. Arability is one of the most charming qualities a garden can possess.

Many a farmer boy has to go into town for his watermelons, his apples and his strawberries. He may be able to get a taste of them on the Fourth of July, and that has to do, for on other days he has to work so hard that in the evening he is too tired to steal them.

Let us take these great truths to heart, fellow farmers, and encourage the truck patch, not for gain, but that our wives and children may be well and happy. Would you rather fill a family with asparagus or pain killer? Should we properly nourish our children or feed them with patent medicines?

It is true that we have many, very many foes to meet—unfavorable weather from without and insects from within—but these are to be met with philosophy and other chemicals. Eternal vigilance is the price of the watermelon, and the same rule may be applied to other vegetables.

The aphid, or plant louse, is another enemy of the farmer, and may be said to rank next to the tariff and the man who wishes to explain same. Tobacco is death on the plant louse. The louse is bitterly opposed to the use of tobacco in any form and can not see why it should be popular with anybody.

The asparagus beetle is another insect that seems to be getting quite a hold upon the American people. Kerosene emulsions will work well on these bugs and break down their constitutions. The bean weevil and pea weevil give the gardener much trouble, and especially in

fields where the canned baked bean is maturing. Where the weevil has gained ground in Massachusetts the cans which used to attain an average weight of four pounds now rarely weigh over two pounds.

The green lettuce worm, the radish fly, the cabbage worm, the lightning rod worm, the celery worm, the corn or holl worm, the cucumber beetle, the cutworm, the flea beetle, the onion maggot, the May beetle, the onion fly and the parsley worm are a few of the farmer's friends; also the dew weevil and its enemy, the dogwood.

Snails are voracious enemies of the garden, and Mr. Greiner says that the only way to deal with them is to scatter pieces of orange peel on the ground at night and in the morning one can, if very active, capture the snail, which is so fond of the orange peel that it forgets to go home to its family for breakfast, and thus may be headed off and run down by a brisk man.

We need hardly mention the squash vine borer, the squash bug, the wire worm or the unearned increment, all of which are the enemies of the farmer and the gardener.

Let us strive against these foes and seek intelligently to eat more good vegetables at home instead of saving for our families only those articles which the rich, the pampered and the sedentary retuse to buy.—*Edw. Nye, in Chicago Herald.*

Two Reference Books.

"Annals of Horticulture" for 1891, now in its third year, is one of the useful books of reference which contain much in little room. The horticultural statistics, record of new varieties, and record of plant diseases put widely scattered information in convenient form. The record of plant portraits is an interesting feature, and also the tools and conveniences of the year. In the directory of botanic gardens, which appears to be full and complete, we notice the omission of the Washington Botanic, of which President-elect W. R. Smith is curator. The Department of Agriculture Gardens are named, but the other is omitted. This seems strange, as it is our only botanic garden under direct national supervision. Under the heading of "National and Educational Interests" we find space devoted to the horticultural display at the Columbian Exposition, and also to the proposed New York Botanic Garden. There is a large amount of information valuable to nurserymen and fruit growers.

"The Horticulturists' Rule Book", by the same author (Prof. L. H. Bailey) is an excellent collection of statistical information, chiefly applicable to the needs of nurserymen and market gardeners, though the chapters on plant diseases and fungicides will be found useful to the florist also. This book is now in its second edition, complete to the beginning of the present year.

EMORY E. SMITH, Assistant Professor of Horticulture at the Leland Stanford University, of California, has returned from his European trip.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the *FLORIST*. The reference lists of roses, chrysanthemums and carnations are almost worth the price of the book.

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow. It must be fresh, well spawned, and in good condition.

Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise.

"Mushrooms for the Million," Mailed free. Falconer's "Mushrooms and How to Grow Them." Published at \$1.00. Gardiner's price \$1.35 post free. Robinson's "Mushroom Culture," 50 cts. post paid.

CARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$3.00 per 100 lbs. Special rates to large growers. Address all correspondence to 21 North Thirteenth Street, Philadelphia, Pa.

JOHN CARDINER & CO.

Mention American Florist.

Bulbs.

Roman Hyacinths, white, 11 to 12 ctms. . . \$15.00
Narcissus, Double Roman 10.00
Narcissus Poeticus 4.50
Scilla Siberica, extra large 6.50
Lilium Candidum, very fine 27.50
Calla Nana compacta, California grown, dry bulbs, per 100 \$15.00.
A full line of Hyacinths, Tulips, and other Dutch Bulbs.
Bouquet Green in stock.

J. C. VAUGHAN,
NEW YORK. CHICAGO.

Mention American Florist.

**OUR NEW
TRADE DIRECTORY**

— AND —

Reference Book

FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurseries and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and Local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

**YOU CAN'T AFFORD TO BE
WITHOUT THIS BOOK.**

Price, \$2.00, Postpaid.

AMERICAN FLORIST CO.,

322 Dearborn St., CHICAGO.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILUM HARRISII AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS,

114 Chambers Street, NEW YORK.

Illustrated Catalogue on application.

**GARDENING**

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language *that they can understand.* Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO.,** Monon Building, Chicago.

**DIRECT FROM THE GROWER.****BULBS, ETC., ETC.**

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

We have ready for shipment NOW, the following Bulbs:

**ROMAN HYACINTHS,
FREESIAS,
DUTCH HYACINTHS,
TULIPS,
NARCISUS.**

CHINESE NARCISUS.
Send for our price list.
WISCONSIN FLOWER EXCHANGE, Milwaukee, Wis.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000.....\$ 7.50

10,000..... 72.50

50,000.....337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

LILUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

Send for Catalogue of
**JAPAN BULBS, SEEDS,
AND SHRUBS.**
**ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.**

**STOCK THAT
SELLS WELL!**

LILY OF THE VALLEY

**FROST RIPENED.
BEST HAMBURG PIPS.**

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,

3 COENTIES SLIP, NEW YORK

Always mention the AMERICAN FLORIST when writing to advertisers

Toronto.

Trade seems to be gradually brightening up as outside flowers diminish, and it is to be hoped that florists may soon have the pleasure of making a deposit in the bank once more. The last few nights have been quite cool, but as yet there has been no frost to damage the tenderest coleus. The days have been fine and comparatively warm. Take it altogether, this has been a beautiful late summer and the weather about as good as they make it.

The Committee of the Gardeners' and Florists' Association on the World's Fair exhibit met a few days ago and moved matters on a bit. But, as no plants will be sent from here until April, there is no particular need for rushing things; the plants will be picked out shortly, so that the gardeners can give them every possible attention during the winter, and have them in first-class condition when the time comes to ship them to Chicago. From the way the boys are interesting themselves in the matter I have no doubt that Ontario will not be the last in the procession.

Chrysanthemum show business is also coming to the front again now. The Horticultural Pavilion has been secured for a whole week, which it is hoped will include Thanksgiving day. The committee that has the matter in hand meets this week to put everything into working order.

News Notes.

ROCKLAND, ME.—A. I. Mather is preparing to build a new rose house, 100x20, next spring.

CREEDE, CO.—The Gandolfo Fruit Co. was incorporated here September 27, with a capital stock of \$5,000.

JANESVILLE, WIS.—Walter Helms has been largely increasing his stock and reports trade in his vicinity as very brisk.

BINGHAMPTON, N.Y.—Grove P. Rawson, the Elmira florist, will open a branch store on Court street in this city October 8.

WILMINGTON, N. C.—Mrs. H. Webb died on September 4; her business will be continued by Miss Fannie Johnson, who has had it in charge during Mrs. Webb's illness.

TOLEDO, O.—Mrs. E. Suder has added a violet and bulb house to her establishment. Ewald Suder has started in business for himself with six houses, each 100x20, for roses, carnations and violets.

PORTORIA, O.—Sackett & North have built three new greenhouses 20x70, and one 12x10 for propagating. They now have eight houses in good order for cut flowers, heated by steam, and also grow a large stock of violets in frames.

CHICAGO, ILL.—The American Horticultural Society has elected the following officers for the coming year: President, Parker Earle, Mississippi; vice-president-at-large, J. M. Samuels, Chicago; secretary, F. A. Poppeno, Kansas; treasurer, J. C. Evans, Missouri.

TIFFIN, OHIO.—Lewis Ullrich made an attractive display here in the Labor Day parade, having a large wagon covered with golden rod and palms, in which a young lady was enthroned, representing the goddess Flora. Mr. Ullrich presented a bouquet to every man in the parade.



HERB & WULLE,

Nurserymen, Seed Growers & Exporters

NAPLES, ITALY.

NEW IMPORTATION

of South European, African and Asiatic Flower Bulbs and Roots. (Now time for potting.)

	Per 1	Per 10	Per 100
IRIS HELENA—New, rare, splendid, delicate lilac colored species, of great value for cutting. Winter flowering.	\$1.00	\$8.00	\$72.00
IRIS ATROPURPUREA—Dark purple flowers; for forcing purposes highly adapted.	.30	1.50	11.00
IRIS HISPANICA—Also a very nice Iris.	.30	1.50	11.00
ARUM SAXIFR.—The well known Black Calla; excellent for pot culture and market sale; flowers sweet-scented, 1 foot long, 8 inches broad.	.50	4.00	30.00
ASPARAGUS ACUTIFOLIUS—Produces long sprigs; most elegant; keeps long time fresh; for cutting purposes.	.05	.45	4.00
ARUM NEAPOLITANUM—Highly commendable cut flowers; pure white; for forcing.	.10	.70	6.00
MISCARINOSUM—For cutting purposes.	.10	.70	6.00
MISCARINOSUM—Excellent for pot culture.	.10	.70	6.00
CYCLAMEN NEAPOLITANUM—The much requested, splendid Italian Cyclamen.	.05	.30	2.50
AMARYLLIS BELADONNA—The beautiful "Belladonna Lily."	.00	.50	5.00

Other magnificent flowers bulbs see catalogue. Descriptive Catalogue free on application. Prices for larger quantities by letter, communicating also direct with the warehouse at Naples.

WILLIAM HERB, 1016 N. Gay Street, BALTIMORE, MD.



Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

PANSY PLANTS.

The Jennings strain of large flowering Fancy Pansies now ready. 300,000 sold in '91. Fine for winter blooming, and for spring sales there is no better in the market. Price by mail order, per 100, \$5.00 per 100, 500, 1,000, any quantity you want up to December 15, plants any size wanted. Send in your order early, as there is a big demand for these Pansies. Seed of this strain \$1 per trade packet of 200 seeds, once \$6.00.

E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254, SOUTHPORT, CONN.
Mention American Florist.

PANSIES.

New crop of Vautier's Mammoth Pansy Seed now ready. For mammoth size, beauty and perfect form they rival any varieties heretofore offered. Colors are rich and varied; plants bushy and compact. The superb colors and immense size have placed Vautier's seed at the head. We guarantee this seed to be the finest ever offered. Small packets 25c; trade packet, \$1.00; 1 ounce, \$1.25; ounce, \$5.00.

H. O. FAUST & CO., Seedsmen,
64 and 66 N. Front Street, PHILADELPHIA, PA.

Mammoth Pansies.

From the most celebrated strains of Europe and America.

\$5.00 PER 1,000.

Address J. G. Burrow,
FISHKILL, N. Y.
Mention American Florist.

BEST GERMAN PANSIES.

From seed bench; strong plants in 50 sorts, 75 cts. per 100; \$5.00 per 1,000.

MERRET ROSES, in 3-inch pots, strong and healthy, \$5.00 per 100.

CARNATIONS. A few hundred Silver Spray, Grace Wilder and Yella, \$5.00 per 100.

JOHN P. TONNER, Mont Clare, Ill.
Orders received in English, German and Danish.
Mention American Florist.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

Mention American Florist.

APPROXIMATELY 10,000 PLANTS, 10,000 SEEDS, 100 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, shrubs, Roses, Vines, Small FRUIT, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Seed Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
Successors to SNEYD TUTTLE & CO., BLOOMINGTON, ILL.

BOKEY GREEN

In stock from this date. We aim to be headquartres for a good quality of this salable decorative material for Fall and Winter trade. We sell the "Get There" Holly.

J. C. VAUGHAN,
NEW YORK. CHICAGO.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

Agents:
J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,

use our FLORISTS' GREEN THREADS.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.

—WRITE FOR SAMPLES AND PRICES.—

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell for cash, and freight prepaid in Yokohama, to every one who will favor him with an order. Catalogues on application.

The freight has to be paid in U. S. gold exchange; the goods are, however, paid in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents Mexican silver dollars in Yokohama, freight to San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex. 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 5-inch pot.

RHAPIS FLABELLIFORMIS, 25 cts. per shoot.

For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

THE SMILAX KING!

Who?

KOFFMAN,

Where?

WALDEN,
Orange Co., N. Y.

What?

SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When?

ALL THE YEAR AROUND.

And he pays the Express.

ENGLISH
MUSHROOM
SPAWN.

Large importation of fresh stock just received.

1 lb 15c.; 10 lbs. \$1.25;
100 lbs \$8.00.

W. W. BARNARD & CO.,

6 & 8 N. CLARK STREET,

CHICAGO.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Azalea Indica.

Tremendous stock of large plants specially grown in pots for forcing and exportation.

For prices and particulars, apply to

EDW. PYNAERT, Nurseryman,

GHEENT, BELGIUM.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France. A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

PALMS.

IF YOU INTEND TO LAY IN A STOCK OF
LATANIAS, RHAPIS, ARECAS,
KENTIAS, COCOS, PHOENIX,
AND OTHER DECORATIVE PLANTS, SUCH AS
ADIANTUMS, PANDANUS, PANAX,
FICUS, ARAUCARIAS,

Before placing your order, send us a list of your wants for estimate. As we are headquarters for this class of plants you will find it to your advantage to do so.

BULBS. We are now filling orders for Bulbs of all kinds, and can yet furnish **ROMAN HYACINTHS** for late planting at catalogue prices.

PALM SEEDS.

Kentia Belmoreana,
Araucaria excelsa,

Kentia Forsteriana,
Seafartha elegans,

Kentia Canterburyana,
Areca Baueri.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

HANG

UP OUR NEW
BOOK FOR FLORISTS

and then you will have for convenient reference, the most complete Florist's Fall Trade List of Bulbs, Plants, Seeds and Supplies in America. If not received, write for one.

J. C. VAUGHAN,
New York. CHICAGO.

8c. EACH

FIELD GROW MUMS.

L. Canning, MME. Lean, Gorgeous, Pres. Hyde, Mrs. Gilmore, H. Cannel, R. Breit, Furitan, Elaine, Mrs. T. A. Edison, Gloriosum, Marvel, L. B. Dana, October Beauty, Flora McDonald, Fleur Parfait, Pres. Arthur, W. W. Coles, Mrs. Hardy, Shasta.

Also some large PARIS DAISIES at same price.

CASH, or C. O. D.

S. B. FIELD, Roselle, N. J.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77.

UPPER SANDUSKY, O.

Chinese Primulas.

Crimson, White, Blue, Etc. Cannels, Carter's and Govett Garden strains.

Extra strong, 2½-in. \$3.00 per 100.

100 POTS EUCARIAS,

3½ in. Each 10 cents.

PINK HYDRANGEAS,

3½-in., \$6.50 per 100; 4-in., each 7 cents;

4½ and 5-in., each 15 cents.

JOHN LAWRENCE, Harrisburg, Pa.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. OUWERKERK,

P. O. Box 1845. NEW YORK.

SURPLUS STOCK.

5 000 English lilies, from 3 in. pots, 24 inches high, \$4.00 per 100.

5 000 English lilies from 4-in. pots, 24 inches high, \$5.00 per 100.

500 Bauvardia Davidsonii and Alfred Neuner, from 5-inch pots, \$5.00 per 100.

500 Begonia Rex and Silver Queen, nice salable plants, from 4-inch pots, \$5.00 per 100.

1 000 Acorus variegata, strong, 3-in. pots, \$5 per 100.

500 Strong, healthy Carnation Perlees, 5 to per 100.

A number of specimen plants of Pandanus utilis, Dion edule, Seafartha elegans, Arecas, etc.

Prices and sizes given on application.

JOHN RECK, BRIDGEPORT, CONN.

SAM'L HENSHAW,

Landscape Gardener

West Brighton, Staten Island, N. Y.

New grounds laid out and old ones remodeled.

NEW AND RARE PLANTS,

ORCHIDS, ETC.

A large collection of Hothouse and Greenhouse Plants carefully grown at low rates.

ORCHIDS—A very extensive stock: East Indian, Mexican, Central South American, etc.

Hardy Perennials, Roses, Clematis, Paeonies, Phloxes, Japanese Iris, etc.

New and Standard fruits; rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Indianapolis.

At the state fair there was only a partial display in the horticultural building, fruit being scarce for one thing, while the dissatisfaction felt by the florists toward the state board lessened the display still further. Anthony Wiegand took first prizes on palms, ferns, foliage plants, best group of plants and others. Berterman Bros. received first for caladiums, begonias, coleus, gladiolus, newest show design and newest funeral design. John Reiman & Co. received first prize for baskets, Mrs. C. Reiman first for funeral designs, bouquets and several others.

W. W. Coles of Kokomo exhibited some elegant cut roses, receiving first prize. Chas. Wheatcraft also carried off several premiums. There was no competition in several entries, owing to mistake in premium list. Henry Michel of Marion acted as expert judge.

One of the large dry goods establishments in this city has added a floral department; particulars later.

Arrangements for the chrysanthemum show are progressing splendidly; a very fine exhibition is assured. Committee on spring exhibition will send out premium lists shortly.

Trade is slowly improving. Quality of roses is at the present time very poor, with few exceptions.

A. Pahud has added three new houses for plants and cut flowers.

A general question around here is, what will destroy the black beetle on asters and gladioli? What will kill them? Don't say catch them before they become numerous; they seem to come by the thousands at once. W. B.

Do you want a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

Ficus Elastica. *

Extra strong plants, 6-inch pots,
\$50.00 per hundred.

ANDORRA NURSERIES,

Wm. Warner Harper, MANAGER, CHESTNUT HILL, PHILA., PA.

CLEMATIS.

	Doz.	Hundred.
2 Year Choice Assortment	\$5.00	\$25.00
1 "	2.00	15.00
H. P. Roses, Choice named kinds	1.50	10.00
Monthly	1.25	8.00
Only Showlike, strong plants	.50	3.00
Pansy Plants, Cupids, Begonias and		
Cattails by mail	.50	2.00

F. A. BALLER,
BLOOMINGTON, ILL.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dinmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

ROSES. Our TRADE DIRECTORY contains the names, date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

— Exporters, Importers and Growers of —

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

LILY OF THE VALLEY PIPS.

Selected three year old crowns of the true large flowered variety, from consignment due in November, ex-steamer wharf at New York. Per case of 2,500, \$19.00.

MARIE LOUISE VIOLETS, strong runners, free from disease,
\$20.00 per 1000. Smilax Seed, per oz. 30 cents; per lb. \$3.00.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell. The very best Ornamental shrub. It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	\$5.00 per 100;	\$40.00 per 1000
TWO YEARS, 18x24 inches, fine	6.00 "	50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong	7.00 "	60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 "	70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS

THE DINGEE & CONARD CO.
West Grove, Pa.



Fancy.



Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a Specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

GARDENING

Edited by William Falconer, tells amateurs in gardening what they want to know in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by THE GARDENING CO., Monon Building, Chicago.

MARSCHUETZ & CO.,
FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConnelville, O.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALEMS,



FERNIS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIUH HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

• YOU WILL ALL WANT THE •

SNOW GREST DAISY

Now in the time to put them in for
Christmas blooming.

The most enterprising in the trade are taking
hold of it. The 25 000 nearly all gone. Don't
forget that we are headquarters and owners of the
ORIGINAL PLANT and have the largest stock in the
world and offer them now 12 for \$1.00. Sample
plant with bloom for 12 1c. or 6 2c. stamps, post
free; 100 for \$3.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy
Seed and realize all that can be desired in the
Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/4-oz.
51 60; 1/2-oz. \$2.00; ounce \$5.00.

New Crop Mammoth Verbenas Seed in fine mix-
ture; plenty of white; finest crimsons and richest
purples, with all the intermediate colors, in
packets of 1000, seeds 60c; 5000 for \$2.25, while
they last.

Also the beautiful Sweet-Scented and novel
Dakota Primrose Ice King 100 seeds 25c.
Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E. NEW YORK.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

TOBACCO STEMS.

Put up in bales of 200 lbs. at
\$1.50 per 100 lbs. Cash with
order. F. o. b. cars Chicago.

LAKE CITY FLORAL CO.,

48 Adams Street, CHICAGO.

You will benefit the AMERICAN FLORIST
by mentioning it every time you
write an advertiser in its columns.

Extraordinary Sale.

700 COOL ORCHIDS.

1000 ADIANTUM FARLEYENSE.

100 WHITE LAPAGERIAS.

— AT —

DAVID ALLAN'S, Mt. Auburn, Mass.,

OCTOBER 13, AT 10 A. M.

Send for List. If unable to attend, send bids by mail to

EDWARD HATCH, Auctioneer.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across,
\$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

“ “ to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun
perfectly, making it one of the most desirable plants for Vases,
Window Gardens, etc. On ordinary grown plants in 5 inch pots the fronds reach a length of 24 to
36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will
stand more handling and fills up much better than most of the palms used for this purpose. Also
desirable for cutting. Price: 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • • Bay City, Mich.

ASTILBE JAPONICA VAR. GRANDIFLORA.

“THE PEER AMONG FORCING PLANTS.”

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. “The latest blooming and most
fragrant of its family.”

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.)

THE READING NURSERY,

• JACOB W. MANNING, Proprietor. • **READING, MASS.**

Mention American Florist.

Palms and Dracænas.

LARGEST STOCK IN THE WEST.

From \$6.00 to \$75.00 per 100.

Specimens, \$1, \$5, \$10 and \$15 each.

Send for new wholesale list and descriptive
catalogue.

W. J. HESSER, Plattsmouth, Neb.

PLANTS.

500 Cyclamen persicum and giganteum.

2500 Adiantums.

1000 Grevilleas.

All good stock. In 2½-inch to 4-inch pots. For prices
address **MRS. GEO. R. FRAVELL,**

MARTON, IND.

Excelsior for Drainage.

In regard to "Thorpe's patent drainage system" referred to in your article on Columbian Exposition, I experimented with it last year and found it very unsatisfactory. In shifting chrysanthemums from 2½ to 5-inch pots some were potted with ordinary drainage and some with only excelsior. These latter did not do near as well as the ones potted with crocking; the excelsior got mouldy and black, and when the roots got to it they got black and seemed to rot away. When I noticed that I lost no time in having the excelsior removed and crocks used instead, when the plants grew all right. I hope Mr. Thorpe's primulas will do better.

J. P. RING.

Bridgeport, Conn.

The Color Question.

"Blue" is a prettier word to say than "purple," and there are more rhymes for it. For this reason all the purple flowers are called blue by the poets.—*Phila. Record, Sept. 24, '92.*

Respectfully referred to Mr. Battles of Phila. Is it possible after all that the catalogue men are not so bad, or are they all poets?

WE ARE in receipt of the advance sheet giving list of premiums to be competed for at the Pennsylvania Horticultural Society's spring show, March 14, 15, 16 and 17, 1893. Among special premiums is a silver cup, offered by Robert Craig, for twelve carnation blooms of a new variety, not disseminated; while the "Wentworth Prizes," offered by Dr. E. H. Williams, consisting of \$25, \$15 and \$10, are also devoted to the same flower.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

A FEW REMARKS

ON THE SUBJECT OF CLEAR CYPRESS MATERIAL.

CLEAR CYPRESS has been proved by long experience to be the best wood for greenhouse construction.

WHEN BUILDING you want the best and only the best.

I HAVE BUILT GREENHOUSES FOR YEARS, but have advertised this branch of my business only three months past.

EXPERIENCE COUNTS, and I have shipped houses to all parts of the country from Maine to Texas.

CARRY A STOCK OF CYPRESS ON HAND AT ALL TIMES, and can furnish you with sash bars or ventilating sash of any size.

I DO NOT WANT THE EARTH, but am satisfied with a reasonable profit.

Write for Estimates and Prices.

Address

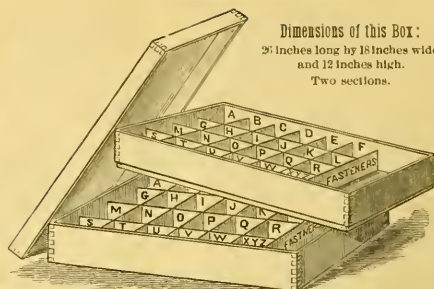
LYMAN FELHEIM,

Erie, Pa.



Kills Mildew and Fungus growth. What does? **GRAPE DUST.**

Sold by Seedsmen.



Dimensions of this Box:

25 inches long by 18 inches wide and 12 inches high. Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. McCARTHY, Address 13 Green St., Boston, Mass. Treas. & Mangr.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
E. Kaufman, Philadelphia, Pa.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Summers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbroch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
Marschneitz & Co., 25 N. 4th St., Phila., Pa.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. ONE HUNDRED different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.



THE EVANS CHALLENGE VENTILATING APPARATUS.

WITHOUT A RIVAL, EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE
FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth
is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb
of roof.
- 5th. Give the thickness and width of rafters or
sash bar

For Florists, Nurserymen & Seedsmen

GEM STEEL GEM WIND ENGINE GEM STEEL TOWER

The GEM ENGINE, when furnished with
Graphite Bearings, requires no oiling, no clamping
of towers, no lined or frail-jointed towers,
and practically no attention, yet is more dur-
able than other Wind Motors that require all this
and more to make it finish. The GEM TOWER
combines beauty, strength, durability, simpli-
city to the greatest extent and has no equal. Both
are manufactured and guaranteed by the oldest
and most reliable Wind Mill Companies in exist-
ence, and who build the Halladay Standard
Pumping and Geared Wind Mills, the
Standard Yarners, and U. S. Solid
Wheel Wind Mills, Pumps, Tanks, Horse
Hay Tools, &c. No other company offers equal
inducements. Send for Catalogue and Prices.
U. S. WIND ENGINE & PUMP CO.
RATAVIA, ILL., U. S. A.



BRANCH HOUSES: Omaha, Neb.; Kansas City,
Mo.; St. Louis, Mo.; New York, N. Y.;
Detroit, Mich.; Boston, Mass.; Ft. Worth, Tex.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green
Houses or Farmer's Sash. You can save money
and glass by using the



PATENT GLAZIER Twin Points.

THESE POINTS are far superior to the old
mode of setting glass, as they will hold each pane
in place, preventing the glass from slipping and
causing binding and cracking. Each box contains
600 rights and 600 lefts. We also make a tool for
driving the points. Price, 35c a Box. Driver,
15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware,
Paint, Oil, Seedsmen, and Florist Supply Stores in
the country. If you do not find them, send postal
for a free sample, or send 69 cents for 1 package and
1 driver by mail, post paid to any part of the U. S.
H. W. EAMES CO., Milford, Mass.,

OUR . . . HALF-TONE

ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,

183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

Please mention the American Florist
every time you write any of the
advertisers on this page.

KILLMRIGHT

REGISTERED

NON POISONOUS INSECTICIDE

DEATH TO INSECTS MILDEW LIFE TO TREES, PLANTS,
FRUIT, FLOWERS.

PRICE 2lb. CAN .50 5lb. \$1.20 10lb. \$2.25 20lb. \$4.00

STOTT DISTRIBUTER

DIAMETER 4" SECTIONAL VIEW LENGTH 30"

INSECTICIDE IS AUTOMATICALLY MIXED.
SAVES TIME AND MONEY.

PRICE IN COPPER 2 CELL \$9.00 - 3 CELL \$10.50 - 5 CELL \$12.

THE "STOTT" PATENT SPRAYER.

BEST SPRAY LIKE MIST, NEVER CLOGS, ALWAYS IN ORDER

STOTT PAT. SYRINGES.

AUTOMATIC INSECTICIDE MIXER
PRICE - INCLUDING - TWO STOTT SPRAYERS & ROSE \$7.00

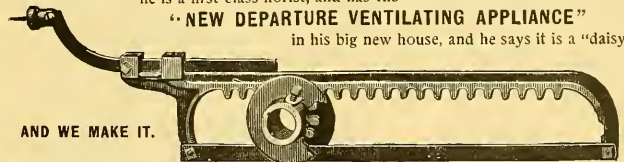
SEND FOR CIRCULAR
STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST. NEW YORK.

I SAY!

Do you know C. B. Whitnall of Milwaukee, Wis.? Well, I'll tell you,
he is a first-class florist, and has the

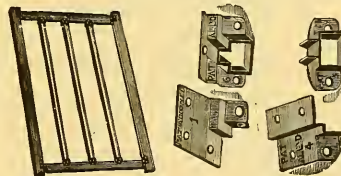
"NEW FARMER VENTILATING APPLIANCE"

in his big new house, and he says it is a "daisy".



AND WE MAKE IT.

J. D. CARMODY, Evansville, Ind.



GARDENERS HOT-BED SASH. INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.



SPINKSTER
GRIP STEEL GALVANIZED

ARMORED

Pat. 1882, '85, '86,
'88, '90, '91.

**FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,**
And for any and every purpose for which a hose
can be applied.

Sizes, 1/4 inch to 4 1/2 inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manufac-
ture is an infringement on one or more of our
Patents. The rights secured to us render each individual dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,**
Sole Mfrs and Owners of all the **Spinkster Grip Armored Hose Patents**, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT
DRAINAGE

BENCH TILE

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY.

Used by all the leading
Growers and Horti-
cultural Builders.

Butted Glass.

ED. AM. FLORIST:—It is sad to one who has just completed three houses, each 100x20, with butted glass, to read such emphatic and sweeping denunciation of this plan as that of Mr. W. B. Woodruff (page 178). There are different methods of butting glass and I am sure Mr. Woodruff has not tried the best plan or he would not say what he does. My houses have not been completed long enough to give me much experience, but it has rained hard several times and not a drop comes through. I have used best quality double thick glass, 14 inches square, with the Lockland bar and cap. Now, Mr. Editor, I did not experiment with these houses on newspaper talk, but I have known a place where there are eight or nine houses. These houses have been built seven years. In them has been growing, and are now growing, some of the finest roses in the country. The houses are models for cleanliness and light and every foot of glass on this place is butted, and the owner would as soon think of covering his houses with tin as altering his plan of glazing. The little dirt that creeps in is easily washed off once a year. I would advise Mr. Woodruff to visit the large establishment of John H. Dunlop of Toronto, Ont., and I think he would be a convert to butted glass.

Buffalo.

WM. SCOTT.

Florists' Glass.

The letter of C. B. W. does indeed open a question of very great importance to florists. There are several good glasses in use, calculated to break up, instead of concentrating, the "burning rays" of the sun, notably the Kew green glass and the ground glass used by some builders. They are, however, expensive, and the green glass has been imitated in an inferior manner. What is wanted is some cheap substance fused into the body of the glass (ground pumice, maybe) which will break up the burning rays without excluding either heat or light. Why not try a dark glass, such as bottles are made of, for some plants—ferns, for example?

Trenton, N. J. JAMES MCPHERSON.

CYPRESS GREENHOUSE MATERIAL

**CLEAR
CYPRESS
SASH
BARS**

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

**2,000 POUNDS BROMUS
FOR SALE**

at 20 cents per pound C. O. D.

THEO. SPADING, New Buffalo, Mich.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

Best in the market.

D. C. SCHOFIELD & CO., NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can't be beat. We have the assurance of a host of our customers, that our make is the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFLE & CO., SYRACUSE, N. Y.

**BUTTED
GLASS
SASH
BARS.**

Does away with all putting and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.
Shall we book your order next?
Enclose 2c. stamp for sample.

ADDRESS
LOCKLAND LUMBER CO.
A. M. STEARNS, Mgrt. LOCKLAND, OHIO.

CARNATION CULTURE; BY
C. L. LAMBORN
Third Edition containing all available information on the subject NOW READY. Price, \$1.50
Address H. E. CHITTY, Paterson, N. J.

A. DIETSCH & CO.
**CLEAR CYPRESS & PINE
GREEN-HOUSE RAFTERS
VENTILATORS HOT-BED
SASH, GUTTERING & ETC.**

Chicago Root of Sangamon Street.
Mention American Florist

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.
Mention American Florist.

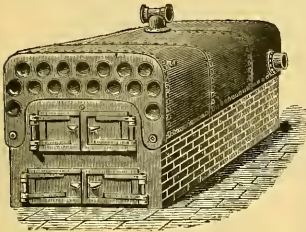
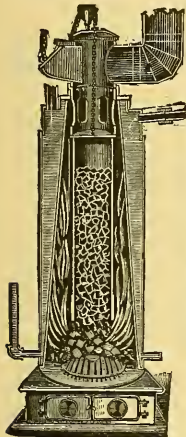
When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

ESTABLISHED 1854.

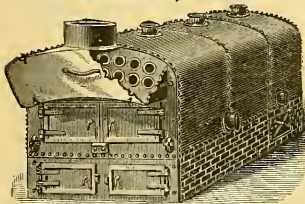
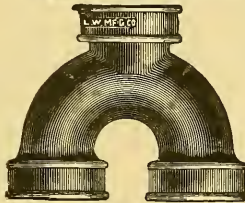
DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Atty.,**OFFICE, 189 STATE STREET,
WORKS, 56th & WALLACE STREETS.**CHICAGO.****THE WILKS HEATER,**
FOR HEATING**GREENHOUSES, STORES, DWELLINGS, ETC.**Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
by
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**

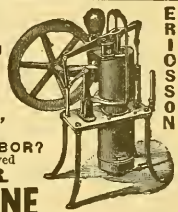
41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, flange
sheets and heads of steel, water space all around
(front, sides and back). Write for information**THE GREAT ANTIPEST.**For particulars, send next week,
R. W. CARMAN, GEN'L AGT.,
24 Amity Street, FLUSHING, Queens Co., N. Y.Mention the AMERICAN FLORIST
when writing advertisers on this page.**Greenhouse Pipe and Fittings**Large quantities of our Pipe are in use in Green-
houses throughout the West, to any of which we
refer as to its excellent quality.Pipe can be easily put together by any one, very
little instruction being needed.**GET THE BEST!**Hot-Water Heating, in its Economy and Superi-
ority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER
OR
ERICSSON PUMPING ENGINECatalogue with full particulars, sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.**For Your**
GREEN HOUSE,
ROSE HOUSE,
NURSERY,**D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASSfor ROSE HOUSES, CONSERVATORIES, Etc., Etc.
Our Glass received the Highest Award at the Boston Convention of the S. A. F.

ESTABLISHED

1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS335 EAST 21ST ST.

NEW YORK.

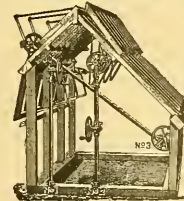
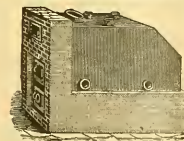
SASH BARSVENTILATORS, RIDGES, GUTTERING
AND LUMBER.**NO WIDE-AWAKE FLOERIST** need be told
it will pay him to use SASH BARS,
etc. made from**CLEAR CYPRESS.**

Bars all Shapes up to 20 feet long.

Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO

YOU CANSAVE MONEY BY
PURCHASING
AND GLASS BY USING**Hamilton's Patent Sash Lifter.**The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.**BAY STATE HARDWARE CO.,**
273 Freeport St., BOSTON, MASS.**THE STANDARD Ventilating**
MachinesReceived best awards
at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.Send for Catalogue
and prices.**E. HIPPARD,**
Youngstown, O.**GREEN-HOUSE**
HEATING.**Meyers & Co.**
1173 S. Ninth St.,
PHILADELPHIA.
Send for catalogue
and price list.Mention the American Florist when
writing to advertisers on this page.

Index to Advertisers.

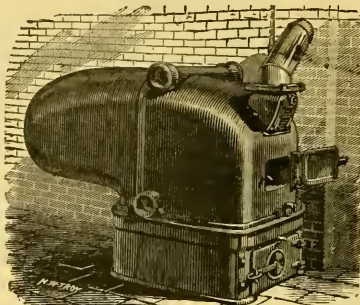
Abel C C & Co.	223
Adv Rates, etc.	229
Allen David	227
Andorra Nurseries	229
Bailey P A	229
Barnard W W & Co.	229
Bay State Hdw Co.	231
Bayersdorfer H & Co.	229
Berger H H & Co.	223
Boschmer Louis	225
Bonsall Jos E & Son	229
Boston Letter Co.	229
Braue L B	229
Brauer & Richter	229
Buist H Jr	223
Burns & Lanyon	223
Burrow J G	223
Buxton Geo E	219
Carman R W	229
Carroll J D	229
Chitty H E	229
Cook John	229
De Lamer Iron Wks	231
Devine's Boiler Wks	231
Dietsch A & Co.	231
Hilton J L	219
Dilling & Conrad Co.	229
Dreer H A	229
James H W & Co	229
Eckhardt Theo	229
Edridge W M	229
Elliott W H	229
Ernest Wm	229
Faust H & Co	229
Felheim Lynn	229
Feld S B	229
Fravell Mrs Geo R	229
Gardening Co Theo	229
Gardner J & Co	229
Gibson J C	229
Gonzalez & Co	229
Grubb S S	229
Hall Ass'n	229
Hammond Benj	229
Hancock Geo	229
Hart James	229
Hart Michael J	229
Hartford & Nichols	229
Hatch Edward	229
Henshaw Samuel	229
Herr Albert M	229
Hess W J	229
Hewes A H & Co	229
Hill E H & Co	229
Hippard E	229
Hitchings & Co	229
Hooker H M Co	229
Hulsebosch Bros	229
Hunt P H	229
Hunt M A	229
Hunter & Purdy	229
Irvine John Co	229
Jennings E B	219
Joosten C H	223
Kennicott Bros	229
Koffman P	229
Kroeschel Bros	229
Kuehn C A	229
Lake City Floral Co	227
La Roche & Stahl	229
Lawrence John	229
Lockland Lumber Co	229
Lombard R T	219
Long Dan T R	229
Lonsdale Edwin	229
McBride Alex	119

McCarthy S F & Co.	221
McFarland J H	229
McFarland J H Co	224
McKellar & Sperry	221
Manz J & Co	229
Marling Hart & Co	229
Marschall & Co	226
Meyer John C & Co	224
Michol Plant & Bulb Co	225
Millard Bros	221
Miller Geo W	229
Monkett G J	229
Moninger Jno C	229
Moon Samuel C	225
Morris Frank L	229
Myers & Co	231
National Hot Water Heater Co	229
Olson M	221
Quaker City Mach Wks	229
Peck & Sutherland	221
Pierce & Coleman Co	229
Pierson F R Co	225
Phoenix Nursery Co	224
Pierston A N	229
Pittner & Mandl	225
Plymouth Edw	225
Quaker City Mach Wks	229
Randall A J	221
Reading Nursery The	225
Reck John	225
Reimers Chas W	219
Roberts D H	229
Rochers Theo	221
Rolker A & Sons	227
Russell J	229
Sander & Co	226
Saul John	225
Schultz F V & Co	225
Schofield D C & Co	229
Schultz Jacob	229
Scollay John A	225
Schule P A & Sons	225
Sherrin W F	229
Sherrwood Hall Nur	229
Sherlock & Wadley	227
Siple Drapel & Co	229
Situations, wants	218
Smith C A Floral Co	221
Smith Nathan & Son	219
Spaulding Theo	229
Spooner Wm H	229
Starr Chas T	229
Steffens N	221
Stoff Garden Imp Co	229
Stroby S O	225
Sunderbush H L	221
Swaine Edw	219
Tanner John P	224
Tracht J A & Son	219
Tricker Wm	219
Ulbricht F J	219
U. S. Wind Engine & Pump Co	221
Vanghan J C	223
Waterbury Rubber Co	229
Weathered Thos W	229
Weber & Don	229
Wichel Bros	229
Whitlin Pot Co	229
Whitehead Geo B	217
White W P	219
Wilks S Mfg Co	221
Wisconsin Flower Ex	223
Wolf J Mfg Co	221
Wood Bros	229
Yonng J M & Co	228
Young Bros	221

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.



Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

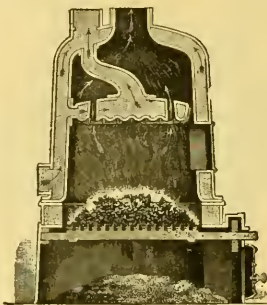
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

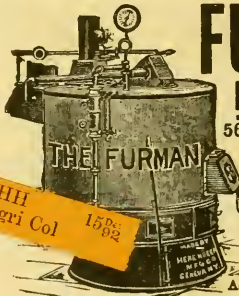
Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

Estimates of cost given, and Illustrated Catalogue furnished on application.

FURMAN BOILERS

Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating



These Boilers have a high reputation for Stanchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

MILWAUKEE, Wis.—Sydney G. Courtten of Chicago has settled here with the intention of opening an extensive seed establishment.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

OUR NEW TRADE
DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

THE SPENCE HEATER
HOT WATER
FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill St. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Seo'y P. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII

CHICAGO AND NEW YORK, OCTOBER 13, 1892.

No. 228

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
332 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. ELYNE, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.
The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS

Forcing lily of the valley	233
The back bay fens, Boston (with illus)	234
Plant notes	235
The rose society again	236
Roses in southern Florida	236
A good start	236
The Columbian Exposition	236
Nymphs and Grays (with illus)	237
Cold oil emulsion for meaty buds	237
Carnations—Seasonable hints	238
New York	238
Philadelphia	238
Boston	239
Chicago	239
Toronto	239
Baltimore	240
St. Louis	240
Chrysanthemum shows	242
The cholera scare	242
The seed trade	244
Bulletin Am. Seed Trade Ass'n	244
Cincinnati	246
St. Paul	248
Springfield, Mass.	248
Lynn, Mass.	250
Patents recently granted	250

LAKESIDE, MINN.—The extensive greenhouses of Holcomb and Donkers, with their contents, were totally destroyed by fire September 27. The loss is not accurately known.

SAN FRANCISCO, CAL.—It has been decided to hold the chrysanthemum show here during the first week in November, instead of the last week in October. It is expected to be an unusually large exhibition.

WILKES BARRE, PA.—Geo. E. Fancourt, who has been in charge of the Dorrance greenhouses for the past eight years, has taken a lease of the same and will hereafter conduct the business on his own account. Mr. B. F. Dorrance will continue business in a new establishment recently erected near by.

Forcing Lily of the Valley.

Like many other operations connected with our business the forcing of lily of the valley is subject to some variations in the hands of different growers and at the same time it must be admitted that there have also been considerable variations in the degree of success attained and consequently as wide differences in the profits resulting from the operation. The cultural methods to which reference will be made in the present instance have, however, been thoroughly tested for a series of years, and while not by any means new, may possibly prove to be of interest to some beginners. The first step in this matter is to secure good pips, either Hamburg or Berlin, the former being favored by many growers, and at the time the stock is received (usually about the first week in November); all pips should be plump and sound, and if started into growth should at once be rejected.

The cases of pips should be opened immediately in order to ascertain the condition of the stock on arrival, and this proving satisfactory, the pips may be unpacked and stored away until needed. The method of storing the pips practised by some growers is simply to heel them in and cover them over in a cold frame, from whence they are brought in and planted in the forcing house as needed, and where the saving of cold frame space is an object this plan is doubtless a good one, as the pips remaining in the original bundles do not take up much room. But in the opinion of the writer it is a better practice to plant the pips in flats at once, putting from 100 to 125 in a flat, and placing the flats in a cold frame, where they should be covered with a very thin layer of litter and over this about an inch or two of soil, the object of the litter being to make a division between the soil in which the pips are planted and that with which they are covered, so that when the covering soil is frozen it can be removed from over the pips without injury to the latter and when placing the flats in the frame it is well to give them a good watering, it being injurious to the pips to become very dry at any time. It is not necessary to cover the frame with sashes unless there is probability of heavy snow or excessive rain, for the freezing of the pips is rather an improvement than a detriment to their flowering. The forcing house is the next consideration and various are the arrangements for this purpose also, but an excellent plan is that of boxing up a sufficient space on a bench where abundant bottom heat can be given, and covering said space with some light wooden shutters or with some other sufficiently opaque material, in order to form a forcing frame with a depth of about 18 inches. The flats can then be brought into heat at intervals of from two to five days and in such quantities as may be desirable and placed in the

forcing frame, where they should be covered with about an inch of sphagnum moss, and given a thorough watering. If they are then given a steady heat of 80 to 85 degrees and never allowed to become dry they will show through the moss in a few days and when about three or four inches high should be given some light, gradually increasing the amount of light and ventilation until the flowers are ready to open, when they should be removed from the frame, placed in some shaded house and given air enough to harden them off. By this method stout spikes from 10 to 15 inches in length may be secured, the time required for the whole operation varying with the season; for instance, in December and January it may need from 21 to 25 days from the time the pips are brought into heat until the flowers are ready to cut, while later in the season fully as good, and frequently better, results will be obtained in 18 to 20 days, and as the season advances still further less heat will be required for the operation.

In regard to soil for the pips it may be said that this is an unimportant matter, some very fine valley being grown in sand only, though I prefer to plant them in loam, the latter being preferably of a light character, it being quite possible that some nutriment is taken up by the pip even though there be no active root growth during the short period of forcing. Where valley is needed *very late* or *very early* in the season a different plan must be adopted with the pips and it is under these circumstances that the cold storage system has been practiced for the preservation of the pips, from the fact that it is not very profitable to force pips of the present season's stock before Christmas and without cold storage they cannot be held back much beyond their natural season for blooming in the spring. In brief, the object of cold storage for lily of the valley is to keep the pips in a dormant condition until such time as they are needed, whether it be in July or November, and this is accomplished by means of a cold air chamber, or practically a large refrigerator in which the pips may be stored in the original cases in which they were received, or else they may be unpacked and stored in sand on the floor of the cold air chamber, if sufficient space can be had for this plan, an advantage of the latter method being found in the ease with which the pips can be examined from time to time in order to ascertain their condition.

In many of our large cities it is probable that arrangements could be made with some cold storage warehouse for the keeping of the pips, though a possible disadvantage of such an arrangement might be the drying out of the pips, from the fact that in such warehouses dry air is that generally used and it is therefore recommended that where the volume of

trade will permit of such outlay it is advisable for the grower to have his own cold storage plant, in order that the conditions may be kept just right, a temperature near freezing point and enough moisture to keep the pips plump being the essential points of the process, while guarding against any accumulation of moisture that would encourage decay.

W. H. TAPLIN.

The Back Bay Fens.

The Common and the Public Gardens are the first links in the chain of public pleasure grounds that is to encircle the city of Boston. Stretching away from them to the southwest is Commonwealth avenue, the beginning of a parkway to connect with Jamaica Pond, the Arnold Arboretum, Franklin Park and Marine Park, encircling the city on three sides and making a pleasure drive of sixteen miles through a most delightful and varied urban, suburban and rural scenery. A pleasure boat could be then taken and a trip of seven miles would carry one through the harbor and up Charles River to the outlet of the Fens; thus completely encircling the city.

The Back Bay Fens mark the beginning of the new part of the park system. It is not, however, a park, but a broadening in the park way (which here leaves Commonwealth avenue), having a twofold purpose. Two considerable streams, Stony Brook and Muddy River, both being contaminated with the surface wash and much sewerage from crowded tenement districts, were met and flowed on to the Charles River. The ebb and flow of the tides left the broad mud banks of the stream polluted with foul matter, and this festering daily in the sun created an intolerable nuisance to the residents of Boston's aristocratic quarters, which were gradually growing over these marshes. There were also frequent floods along Stony Brook, caused by an insufficient outlet. These floods increased with the growth of the towns along the stream and were especially dangerous if they came, as they sometimes did, in conjunction with high waters and high tides in Charles River, which held the waters back. To abate a nuisance threatening the health of an important section of the city, to relieve from damage by floods a large and growing part of the country, to provide for the uninterrupted extension of important thoroughfares, which converged here, to do this at a reasonable expense and in a manner not to antagonize important private interests, and also to make the section an attractive and useful part of Boston's park system was the problem presented to the designers. The Fens are today serving their twofold purpose, yet there is so little evidence of the utilitarian uses that few, if any, of the thousands visiting it yearly ever suspect that it is anything more than a pleasant ramble, a "breathing place" for the people of Boston. Its main purpose was secured by a system of gates by which the water could be kept at one level, or changed as often as required, thus preventing the exposure of offensive mud banks and the accumulation of stagnant water. The floods were in a measure prevented by these same gates holding out the rising tide, and allowing the accumulation of the brook water in the basin until the tide was again low, when it was let out.

One of the first and most important

planting questions to be considered was the covering of the broad stretches of flat land in the Fens, which was just above the brackish water in the basin, and liable to be frequently overflowed by it. Of course ordinary lawn grass was out of the question. The sedges and grasses that naturally covered the surface of the original salt marsh suggested themselves, but with the suggestion came the question of establishing them successfully. In 1885 much of the sod was removed, the surface dug down to the required grade, a portion re-sodded and the balance seeded with the seeds of marsh grasses. The result was on the whole successful, and would have been completely so, had it not been found necessary to temporarily draw the water below its intended level during the summer, a condition it was in when the photographs for the accompanying illustrations were taken. There is now, over the greater part of the surface, a firm sod, made up principally of Black Grass (*Juncus Gerardi*), and Rush Salt Grass (*Spartina striata*). Near the shores of the islands and the borders of plantations is growing the taller Cord or Marsh Grasses (*Spartinas*) and the Sea Sand Grass (*Ammophila arundinacea*), with now and then patches of the very glaucous *Arenaria glauca*, which is not a native.

The next difficulty in the planting was to secure a successful growth of shrubbery and herbaceous plants along the lower part of the banks, subject to occasional baths of salty water, for the purpose of uniting the grasses of the Fens with the shrubbery and trees on the upper part of the banks. It was difficult to get a variety of plants that would grow under these conditions, and more difficult to get them established. The first planting in this place, made in 1884, was largely a failure, but in it were a sufficient number of plants, and patches of plants that had gained a foothold and were thriving, to show that it could be made successful, and so it has turned out to be. Among the plants that have succeeded under these conditions are the tamarix, the Groundsel tree (*Baccharis halimifolia*), Buttonball bush (*Cephalanthus occidentalis*), Wild Rose (*Rosa lucida*), several varieties of willows, the Tawny Day Lily (*Helmerocallis fulva*), Seaside Goldenrod (*Solidago sempervirens*), Dusty Miller (*Artemisia stellaria*). The steep banks above the water line were unusually exposed, being swept on all sides by winds racing over long stretches of level marsh. They were planted with a considerable variety of plants. The trees and shrubs were made up mostly of the common hardy and vigorous growing garden and native kinds, and they were planted thickly to protect each other, and form a protection for better and more ornamental kinds, to be introduced when conditions were provided that would insure their success. Among the less common shrubs which are noticeable at the various points, are groups of *Rosa multiflora*, a most vigorous grower, covered with its pretty white flowers in summer, and in Winter conspicuous with its load of red fruit. *Rosa Wichuraiana* hugs the ground with its running branches and glossy foliage, which is nearly evergreen, *Lycium Chinensis*, the Matrimony Vine, once common in gardens, is a most graceful shrub at all seasons. This is especially noticeable on Agassiz Bridge, which is seen in one of the illustrations. The bridge is faced with field stones backed with soil, and in the crevices between the rocks was placed a variety

of plants, among them this vine which is now master of the situation, with only a few *Spiraea Thunbergii* pushing through it, in a most pleasing way. Nothing could be finer than this wall of graceful spray with the foliage always good in summer, with an almost continuous sprinkling of flowers, which are followed by a brilliant display of fruit far into the winter. To produce an immediate effect of flowers and foliage, that could not at once be produced by woody plants, and to serve as a ground covering; for it is intended to have but little grass to be kept cut; a large number of hardy perennials were used among the shrubs. They served an equally important service, by their vigorous growth at exposed places, in protecting the shrubs. These plants gave the place at once a furnishing that could not be secured for a long time with shrubs, and they furnished a continuous display of flowers from the blazing sheets of Moss Pink (*Phlox subulata*), in the early spring, to the stately and gorgeous perennial sunflowers in autumn. A more interesting place to those interested in this class of plants could hardly be found, for most of the species that are seldom named in herbaceous plant catalogues are there and many others that are seen in our gardens and nurseries.

It was expected that as the shrubs grew they would crowd out much of the temporary planting. In addition to this, careful artificial thinning was to be done, with a view to developing the more valuable permanent trees and plants, form pleasing groups and glades and keep open the important vistas; this thinning, which is very important in all planting, is too often neglected. It should be followed up every year, with a definite object in view, which is not to be lost sight of as the work changes from the hands of one to another. The oldest part of the planting about Richardson's bridge, which was put out in 1884, has much of it made a growth of thirty feet. That which is seen in the view from near Agassiz bridge has been planted from season to season since then. Not until 1890 was there more than half of the total Fen Side planting completed; since then it has gone on more rapidly, and is now about done. Where a great number of varieties have been introduced it would be expected that some of them would find conditions especially suited to their growth and that they would become weedy. This is the case with some plants here, notably *Polygonum cuspidatum*, which at one or two points is covering considerable surfaces to the exclusion of everything else. The evergreen Japanese honeysuckle, which is used very successfully to cover a large surface at one point, is showing a tendency to spread in other parts of the grounds, and smother everything about it. It is not likely, however, to become the troublesome weed that it is in many parts of the south. *Amorpha fruticosa*, the Indigo Shrub, is seeding very freely in the vicinity of old plants, and may drive out some of its neighbors, although it is now within bounds. *Bocconia cordata*, a very persistent plant in gardens, is here well established in places, but does not show the same tendency to monopolize the ground that the *polygonum* does. The perfect road beds, the solid construction, and the careful attention to details which characterizes the work in all the Boston parks are well shown in the illustrations looking over the two bridges.

The design for the Back Bay Fens was



THE BACK BAY FENS, BOSTON.

made by F. L. Olmsted & Co., and the planting was done under their general direction by Mr. W. L. Fisher.

WARREN H. MANNING,
Brookline, Mass.

Plant Notes.

TECOMAS.—These include several very handsome strong growing climbers, prominent among which is the common Trumpet flower, *Tecoma radicans*, also known as *Bignonia radicans*, one of the most graceful hardy vines we have for this latitude. It is, however, to one or two of the less hardy species that reference will be made in the present instance, and first to *T. jasminoides*, a remarkably fine species for training on a large trellis or on overhead wires in a cool house, a winter temperature of 45° to 50° being all this plant requires. *T. jasminoides* is a robust grower, and has an abundance of dark green, glossy foliage of pinnate form, and usually consisting of from five to seven leaflets. The flowers which are produced in large racemes at the tips of the branches, are about two inches in diameter, and white with some reddish markings in the tube. This is a decidedly attractive plant, but unfortunately does not flower to any extent while small, and requires a good deal of space to attain its full development.

Another fine species from this family is *T. grandiflora*, which differs from the preceding in various particulars, the foliage of *T. grandiflora* being less glossy and of thinner texture, and also being serrated, the latter characteristic being entirely wanting in *T. jasminoides*. The flowers of the species under consideration

are scarlet, and under favorable conditions are produced in great profusion. Another handsome climber to which reference has been made occasionally in the columns of the *FLORIST*, is the *Stigmaphyllon ciliatum*, a plant that is still far from common, though by no means new. The plant in question is a slender growing subject with small leaves of a glaucous green color, and ciliated around the edge, while the flowers have been aptly described by someone as "Oncidium-like", their bright yellow color and odd form giving rise to such an impression very readily. *Stigmaphyllon ciliatum* may be increased by cuttings, though these may take a few weeks to root, and the plant is a much more moderate grower than those above noted, though preferring a somewhat higher temperature, say, from 55° to 60°, with exposure to full sunlight.

PASSIFLORA RACEMOSA is perhaps the most useful of the tender Passion Flowers, and should find a place in every collection in which space can be afforded for the purpose. The long racemes of red flowers produced by this species have been found to be a valuable addition to a church decoration, or in finishing off a mantel, and are thrown out with much freedom from both old, hard wood and from the tips of young shoots. Like most of the plants of its class *P. racemosa* needs considerable space in order to attain its best condition, but under such circumstances it is a truly magnificent climber, a case in point being a plant of which I have a very pleasant recollection though it is many years since I last saw it, the specimen referred to being planted out in the centre of a house one hundred

feet long, and trained on wires along the ridge to each end of the house.

LAPAGERIAS.—These fine cool house climbers will doubtless be more extensively planted as their value and requirements are better understood, one difficulty being to keep them cool enough during our hot summer days. As to their value to the decorating florist, it may be said that no one who had the pleasure of seeing David Allan's mantel decoration at the exhibition in Boston during the time the S. A. F. Convention was held in that city, will be likely to question the adaptability of lapageria flowers for such use, and owing to the firm, waxy texture of the blooms they can be kept in good condition for quite a long period after cutting. The slow process of propagation for these plants has kept the price up, and this also has had a discouraging effect on the sale of them, but where they have been given a fair trial a reasonable degree of success has resulted. The best results are obtained from lapagerias when they are planted out in a prepared bed, in a cool, well shaded house, the soil being a light, rough compost in which peat predominates, and an abundance of drainage material being placed in the bottom of the bed. A moist atmosphere is also one of the requisites, and thorough syringing whenever it can be done without injury to the flowers. W. H. TAPLIN.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.



The Rose Society Again.

I have just read Mr. Beatty's criticism on the few lines written by me concerning Mr. May's article on the American Rose Society. While I should be pleased to discuss a few minor points were I in conversation with him they are not worth the space in your paper. I consider his argument a good and valuable one, and if I am to have the credit of bringing it before your readers it will encourage me in my efforts to do some good. There is considerable information in his article which is valuable, and not having attended any of the meetings, as he implies I did, it is new to me and just what I wanted. Doubtless many more were in my fix. Could we have still more of the proceedings of those meetings we would be much wiser, no doubt, in accepting his reply. I must, however, except one point, but without further argument as it would not promote the interest of the society. It is, perhaps, a peculiar notion of mine, which I always feel but seldom talk about; it's the "stimulating." I have always been opposed to it in connection with chrysanthemum shows, in accordance with Mr. Beatty's suggestion. It seems to me that the chief benefit to be derived from the efforts of the rose society will be the education of the public at large in the proper use and the way to enjoy the roses as we now have them, and the first place to begin operations is to exert an influence over our catalogue makers, who grow and ship so many thousands of plants annually that never afford the purchaser any pleasure. I feel that to allow so many flower lovers to spend their money without deriving any pleasure does much to injure the cause. Large showy advertisements are sent out calling attention to the large number of beautiful varieties offered for \$1, when they arrive from 2-inch pots they are set in the ground, and after August 1 they are invisible. It is true some growers make money this way, and it has been argued that what pays in advertising is justifiable.

I frequently have customers ask what a dozen good hardy roses will cost. On being told they will cost \$2.50 they reply, "I can send off and get 25 plants for \$1 or \$1.50." After trying it two years they come back (sometimes) and ask "if I give you \$5 will you set out for me two dozen first class roses?" I say no, "Why?" "Because it's worth about \$12 to prepare the bed for them and you may as well burn them as to plant them as you have been in the habit of doing." Well, a few out of many offer the extra \$12 and we do the work. After they have had a beautiful crop for two seasons they advertise you free of charge, and as the information goes from neighbor to neighbor your trade goes and the rose gives satisfaction. Our trade in this line is increasing rapidly, but it is the large growers who lead people to believe they may have beautiful rose borders for a dollar or two that do so much to discourage the public. A rose society can only flourish in proportion to the support given by the public. *The large field to*

be educated is from our modern expert down—not up. The majority of rose lovers would be thankful for success in raising a good crop of our roses as they are, without clamoring for new varieties; in fact it is difficult to tell the best variety out of a dozen, if all are poorly grown. Of course we want to climb and improve in the front ranks as well as the more backward, but can we not gain time by paying more attention to the welfare of the rose-loving public than has yet been advocated. C. B. W.

Roses in Southern Florida.

The rose is the queen here as well as elsewhere, and under favorable circumstances, it grows to perfection in this semi-tropical climate. Its insect enemies are few, but the drought and frost are very formidable foes. To grow roses to perfection here irrigation is an absolute necessity. The drought begins early in the season and continues until June or July and during this time it is necessary to irrigate every day. The high pine land is very poor and heavy fertilizing is a necessity. Well decomposed cow manure is an excellent fertilizer for this light soil, and horse manure, in the same condition, gives good results. A little bone meal is beneficial and pulverized charcoal intensifies the color of the flowers. Irrigating and fertilizing go hand in hand.

Last winter the roses bloomed until the first Sunday after New Year. Great preference is shown here for budded roses, whereas they do splendidly on their own stock. Perhaps some weak varieties give better satisfaction if budded low on the Manetti. They certainly do well either on their own or on borrowed roots. The plants make such rapid growth; the refreshing dews, the almost continual summer and the semi-tropical climate appear to meet their requirements, at least to a certain extent. A few miles out there is a Madame Lambard that is ten feet across its boughs and ten feet in height, and it is said to have made this growth in five years. Its stock is like that of a young tree.

Marchal Neil grows and blooms finely. In the spring it blooms profusely and after that occasionally. It blooms the year round if not prevented by frost. If budded low on Manetti or James Sprunt it gives it a send-off, and also a dash of crimson. Marchal Neil appears to be the favorite rose in the south. The cut flowers are much sought for and appear to be universal favorites. Reine Marie Henriette is of a very vigorous habit of growth. In this place one has reached the roof of the second story and extends its branches in every direction. Lamarque is another favorite, flowering profusely. Safrano, as a half climber or dwarf, is very satisfactory. Cornelia Cook buds please the most fastidious; they are buds of substance and depth and may be cut with such very long stems. Agrippina grows luxuriantly here. The tea roses, with their delicious fragrance, are extensively grown. It is said the hybrid perpetuals do not succeed so well in this sandy soil. A clay loam is said to meet their requirements. Perhaps they could succeed in the hammocks, where the soil is rich in humus. Pride of Reigate, Magna Charta, Mabel Morrison, Her Majesty and others have proved a success. The south is the home of the rose, and it has been remarked that "everyone has a Golconda mine at his door," but perhaps the trouble with many is to find the key to the entrance. To sum up the wants of the rose must be catered to, that is, they must be heavily

fertilized, abundantly irrigated and the soil about the plant occasionally stirred. De Land, Fla. E.

A Good Start.

Those of our readers who are interested in the introduction to the public of new varieties of roses or other flowers will do well to cut out and paste in their hats that remark of Ernst Asmus' in a recent interview. "Many a new rose has been killed by placing it on the market before it is in proper condition." It is not necessary to cite cases where this has been true. Anyone with a few years' experience in this business can easily recall such instances. In introducing for public favor a new flower of any kind too great care can not be exercised that the blooms first shown are of the highest quality and as nearly perfect as the variety can be made to produce. To show half developed spindling blooms from young weak plants or at a season unfavorable to their best development is most unwise, and it will prove the better course in the long run to consign such products to the furnace and lose the small pecuniary results that might attend their sale rather than to injure the chances of popularity later on which might otherwise be attained.

Of scarcely less importance is the medium through which a new variety first reaches the public eye. If on a street fakir's stand its prospects of rising above its unfortunate surroundings are slim indeed. Starting at the "lowest round of the ladder" may be the best course in some things, but that rule will never work with novelties in the cut flower trade.

The Columbian Exposition.

Recent important consignments of plants are from Pennsylvania and Massachusetts; they include many fine specimens of decorative plants. In the Pennsylvania collection the Allegheny City Parks contribute some remarkable specimens, one of special note being an immense Sabal palm (Sabal principis), a stately plant with bluish foliage of great size. Another fine plant in the same collection is Pandanus reflexus, a handsome variety with drooping leaves, which we rarely see in large specimens. In addition to many large specimens Allegheny City has contributed a good many ferns, selaginellas, and other decorative plants, which will fill up a good many corners. The floricultural department of the Exposition is often annoyed by railway delays; the transportation facilities into the park are poor and involved, and plants often suffer from the difficulties in receiving them.

Most of the big New Zealand ferns are now planted in tubs, and their crowns are unrolling rapidly. These big specimens are lifted into the tubs by means of a block and tackle, the work being done rapidly and well by this means. All the large plants received are doing well, and making new growth. The cactas planted all through the main building are growing very rapidly, promising to cover the interior of the building by next spring.

The collection of pansies still continues to be a very notable feature. They are blooming most abundantly, both out in the open and in the inner court of the building. The variety in coloring is marvellous, one of the most remarkable strains being the auricula-flowered Trimardeau. Some of the Odier strain show such remarkable red tints, while the Bea-



NYMPHÆA GREYÆ.

consfield Trimardeaus are equally remarkable for their clear blue. This feature will be of special interest to the trade, since the sale of pansies seems to become larger year by year, and it is materially increased by the improvement in the flowers. The abundance of bloom at this season of the year is worth noting.

A peculiar and interesting vine, trained on a wire netting against the wall in the main building is *Aristolochia ornithocephala*, one of the most singular of this odd family. The flower is said to look like the head of a hawk and the beak of a heron, with the wattles of a Spanish fowl. It is a stove climber from Brazil. A large quantity of vines will be needed to cover the interior space with green and all manner of quick-growing plants will be used. One difficulty to be contended with is the poverty of the soil; some of it is black in color, but it is extremely light and sandy, very deficient in plant nutriment, and a good many lacking elements must be added before it is fit for horticultural use.

The plants for the dedication are now a glorious show. The cosmos is lifted into tubs, and is covered with bloom, so are the salvias, marigolds and cannas. Madame Crozy is making a fine display in tubs; it is certainly an admirable thing for conservatory decoration. The bridges across the lagoon to the island are now nearly completed, so Chief Thorpe will not be obliged to

risk his life on a frail flat-boat much longer in his trips to the herbaceous garden.

Nymphaea Greyæ.

This is a beautiful new hybrid nymphaea, a cross between *N. scutifolia maculata gigantea* and *N. gracilis*, the latter being the seed-bearing parent. It is described as follows: leaves large, twelve to fifteen inches in diameter, dentate, in young state sparsely spotted with crimson underneath; the upper surface of mature leaves bronze green. The flowers, which are borne on stout stems fifteen to eighteen inches above the water, have bright rose-pink petals; the stamens are of the same shade, tipped with purple. The inside of the sepals is the same as the petals, while the outside is a bright green, with a few elongated crimson marks.

The flowers were exhibited at the September show of the Mass. Horticultural Society, and were much admired, receiving a first-class Certificate of Merit. It was named in compliment to the wife of the raiser, Benj. Grey, by the members of the flower committee, in response to a request for a name. It is certainly a grand acquisition, being one of the most vigorous of all the nymphaeas, and the flowers of a unique shade, which is retained in nearly full brightness until they fade, or for about five days. Under trial this summer it has proved to be the freest

of its class for outdoor cultivation. From its parentage it should prove half hardy in this section, and a little further south it should stand as well as *N. scutifolia*, which it much resembles in habit. It is believed to be the first hybrid nymphaea raised in America. S.

Coal Oil Emulsion for Mealy Bugs.

For the benefit of florists who are troubled by mealy bug, I wish to give my experience with a cheap and effectual remedy during the past season. Through the press of spring work one house of small pot roses became completely infested with the pest, and while we have kept them down in a small way with Fir-tree oil and Gishurst Compound, it seemed like a large and expensive undertaking to do a long house full of small roses, so we tried a copious syringing with coal-oil emulsion. Two doses at an interval of a week almost entirely cleaned them out; a third dose completed the work, by clearing out the late hatched ones and what few had escaped before. The plants, wood-work of benches, and the surface of the soil all received a liberal sprinkling, and no damage is apparent. The cost for material, soft-soap, and coal oil, was about ten cents all told, and the mixture was applied with an ordinary hand syringe with the fine rose on.

The foliage of the roses is dark green, clean and glossy, and shows no trace of the coal oil. We are so pleased with the ease and celerity with which the emulsion destroyed the bugs and left the foliage bright and clean, that we tried it liberally on pot palms, orange and lemon trees, and as our camellias and azaleas were standing in the same place they also were sprayed. The palms and oranges were cleaned of scale and mealy bug that had accumulated through the hot spring months, as if by magic, and all the black gummy deposits, left on the lemons by the scale was easily washed off by the hose after a single application; none of the plants were at all damaged by the coal oil. Of course the large palm growers always have their stock clean, and the bugs and scale never get a start, but for small florists who grow a general line of stock and are unavoidably overworked in the spring I think the coal oil emulsion will prove a great labor-saver, besides making the plants look so bright, clean and glossy.

Doylestown, Pa. E. D. DARLINGTON.



Seasonable Hints.

In our last article we rather forgot to allude to the matter of syringing the newly moved plants. This should not be neglected and unless the weather is cloudy they should receive a good sprinkling at least once a day. As the plants become established the spraying should be discontinued, the ventilators closed on cold nights and the soil allowed to dry out. Carnations will stand a great deal of drying and indeed they should never be over-watered at any time excepting when first planted. The amount of water to be given must be regulated by circumstances, but they should not be wet until pretty well dried out. It will be found in the dark days of winter many of the benches will not need watering for weeks at a time. Over pipes or flues, or in hot corners they will need more water and the supply should be regulated at all times by the amount of heat and sunlight.

The green-fly will make its appearance in a very short time after the plants are housed unless measures are taken to prevent it. Therefore begin to fumigate with tobacco as soon as planted. Once a week we find sufficient, if regularly applied. It is far better to take the green-fly (or aphids) in time, and indeed there is no excuse whatever for its ever being seen in a well-regulated greenhouse. Tobacco stems strewn thickly on the walks is an excellent preventive, but it takes a great many stems and they must be renewed frequently—once in four to six weeks. The litter they make is a great objection. Stems on the benches between the rows are often used for some plants, but will not answer for the carnation as it keeps the soil too wet. On the whole there is probably no better, cheaper or more convenient plan than fumigation. The ashes from the burnt tobacco should be carefully saved as it is an excellent fertilizer.

Red spider will not be apt to make its appearance until the fires are started, but

we shall allude to it later. Having now got our houses in pretty good shape and work not pressing in other directions, we should give attention to the staking of the plants or supporting them in some way. Those who first grew carnations in this section never staked their plants, and it must be confessed finer crops of flowers were never grown. But conditions seem to have changed; or, it may be the fashion. We are all very like sheep and follow the bell-wether in this as in other matters. The staking of carnations has been recommended by high authority and we must all tie our plants to ugly little sticks. The stakes are no improvement to the appearance of the house, the rotting wood is certainly of no benefit to the plant, the stakes last but a year or two, and unless the tying is done by a careful hand the string is apt to be drawn too tightly about the plant, which does more harm than good. Therefore our advice is not to stake if it can be avoided. With some varieties of tall growth it may be necessary. All that is really required is a free circulation of air between and under the plants and to keep the flowers free from dirt. The wire netting now coming into use is the best substitute for staking we have seen. Neat, efficient, invisible and cheap; and, being galvanized it will last a great many years. The plants may also be set much closer by its use. W. R. SHELMIER.

Avondale, Pa.

New York.

Cut flower trade is still in an unsatisfactory state, owing in part to the large overstock of roses coming in. This is Columbus week and crowds of strangers are in the city, but whatever benefit business in general derives from this celebration it does not appear to affect favorably the cut flower trade. In fact the contrary seems to be the fact. The retail florists appear to have accepted the situation and whenever they happen to be located on the line of march a "grand stand" has been erected in any vacant space which they can control in front of their establishments and all preparations made to catch in this way the dollars which fall so reluctantly into the legitimate channel.

The quality of roses in general is greatly improved, and American Beauties and Meteors are exceptions to the prevailing conditions, as both these varieties sell well, Beauties as high as 25 for the best and Meteors 12. Valley is fine and in fair demand. Carnations also are selling better than they did a week ago. Violets are a glut. The first receipts are always heavy at the beginning of the season and this glut of violets from the first crop of buds is always expected at this time. Other markets must be in a similar condition, as quite a quantity of violets are being sent here on commission, which from geographical location ought rightly to be sent to Boston and Philadelphia. The shippers will realize but little from these lots. Single violets are very plenty but can not be sold to advantage when double ones are so cheap.

The first chrysanthemums are already in, Long Island being entitled to the credit of being first in the field. They are of good quality considering their earliness and bring \$4 per doz.

Cosmos is having its usual fall carnival and the market is nearly swamped with it.

Young Bros. have added to the already long list of special premiums to be competed for at the chrysanthemum show an

offer of a \$200 silver cup for the best 200 blooms in 40 varieties, 5 of each variety, with stems not less than 24 inches long.

I. Forsterman has grown fully an inch taller since taking upon himself the responsibilities of American citizenship.

All the prominent flower stores in the fashionable section have been painted and decorated in white and gold this season.

Eugene Dailledouze is wearing a smile of satisfaction which being interpreted means that the brothers are not frightened a bit about their chances at the big chrysanthemum premiums.

The meeting of the Florists' Club last Monday evening was largely attended. Pres. Dean told about his visit to Chicago and described the wonderful progress already made in the horticultural department and of the grandeur of the New York state building. He urged the florists to give all assistance possible and do their share toward filling the building. He advocated special exhibitions by the Florists' Club. The plans are to take care of and decorate the state building inside and out.

Mr. J. H. Taylor followed, urging that the opportunity to show New York's supremacy in horticulture be fully improved, and stated that plants loaned would be transported free to and from Chicago and carefully cared for while there. Mr. Van Ruyter announced his intention to exhibit 100 varieties of carnations, 100 plants of each variety.

Mr. May reported for chrysanthemum exhibition committee that the new schedules are now ready and can be had on application to the manager of the exhibition, Mr. Wm. Plumb, Madison Square Garden. The list includes many new special premiums.

Eighteen new members were admitted to the club and seven more names were proposed.

The nomination of officers resulted as follows: President, W. A. Manda; vice-president, I. Forsterman; secretary, John Young; treasurer, C. B. Weathered.

Mr. Thos. Griffin showed a grand lot of tuberous begonias, outdoor grown, magnificent blooms, both single and double.

Philadelphia.

The October meeting of the Florists' Club was not as largely attended as usual, the proceedings, however, were quite interesting. Vice-President Ball occupied the chair. Mr. Craig for the past month has been kept very busy getting collections of plants for the World's Fair and attending to their shipment, on this account he had been unable to prepare the paper assigned to him and the club had to forego the pleasure of hearing it.

In lieu of a subject for discussion the committee on essays passed around slips of paper on which members desiring could write such questions as they would like answered. A number of slips were returned asking information on different subjects, these were assigned by the president and the answers and discussions which followed were very interesting.

The answer to the question "What shall we do with all the chrysanthemums that will be placed on the market this fall?" brought out the startling news, from Mr. Westcott, who had been given the problem, that there were at least 50 more houses of chrysanthemums this fall than last; he concluded his remarks by saying, "about the amount of it is, the good flowers will find ready sale at fair prices while the poor stock will have to

be given away or find the rubbish heap."

The relative advantages of hot water under pressure and steam were discussed by Messrs. Heacock and Habman; the hot water under pressure advocate, Mr. Habman, seemed to have rather the best of it from the fact that several advocates of steam allowed his points to stand without dispute; his principal claim was that as soon as there was heat generated circulation commenced and continued as long as there was any fire left, while with steam the water must be boiling before there is any movement and must not get below this point or all action ceases. Another point was that the boiler under this system will last longer as it is not subjected to so much strain.

A committee on the chrysanthemum supper was appointed, this festive occasion has become a necessary adjunct to the show and is increasing in popularity every year.

John Westcott was appointed chairman of the decoration committee; the Florists' Club for some time past has decorated the hall for all horticultural exhibitions, and in this way relieved the society of considerable expense as well as added to the beauty of the show.

The election of officers to serve for the ensuing year resulted in the old board being chosen unanimously, the secretary casting the ballot.

Cosmos is with us once more; it seems to be in some respects like chestnuts, as it generally makes its appearance after the first light frost. The florists' windows are full of it and nearly every hustler that comes along has great bunches for sale. The price varies, according to quality, from 50 cents to \$1 a hundred.

R. Scott & Son are first in the market with chrysanthemums, an early yellow variety. Some few flowers were ready October 2. Other growers expect to commence cutting October 10. What a race there will be when all get in line.

A good many roses are coming in, but as a rule the stock is not up to the mark. Prices are about the same as last week.

Mr. Jos. H. Campbell has returned from California. Some time ago he sold out his business in this city, which he had been carrying on for 20 years, and moved to Los Angeles to test the climate, and perhaps settle there for good, but, "East, west, home's best." We now find him erecting a few greenhouses near Logan Station, just to keep him out of mischief, as it were.

The new amateur paper, *Gardening*, of which the second number is at hand, is very well spoken of by the trade. It is predicted that it will be a go from the start. The second number is even better than the first and we have not the slightest doubt but that the subscription list will keep pace with the excellence of the paper.

A representative of the "green goods" fraternity has been trying to strike up an acquaintance with David Bearn, but found him rather hard to approach. David has been in the green goods business himself for a long time, and knowing by experience that new varieties often prove worthless, wisely concluded to make the best of what he had and let well enough alone. David is too cautious to get caught in any trap of this kind.

K.

Boston.

The annual fruit and vegetable exhibition of the Mass. Horticultural Society was held on October 4, 5 and 6. The weather was stormy and the attendance very meagre.

The exhibition was, however, the best of its kind ever seen here. This was true, especially of the fruit display, which was in extent and in evenness and perfection of quality far ahead of the best on record. The collection of hardy grapes from the Mass. Agricultural College at Amherst elicited much praise for high quality and variety and for neatness in staging. Hot-house grapes from J. W. Clark and Geo. A. Nickerson and peaches from Robt. McLeod were also very fine. There were a few flowers shown which served to add a decorative feature to the hall. From the Harvard Botanic Garden came a large display of autumnal flowers, from James Comley good tuberous begonias, and from Shady Hill Nurseries and Wm. Martin large collections of hardy perennials. Mr. Martin also staged some nice plants of the new hybrid streptocarpuses.

The October meeting of the Gardeners' and Florists' Club was well attended. Treasurer F. W. Foster having sent in his resignation Mr. Edward Hatch was elected to the office for the unexpired term. Mr. Arthur Veitch, of London, was elected an honorary member. Messrs. Finlayson, Cox, Gray, Saunders and Martin were appointed a committee to bring in nominations for officers for the ensuing year at the next meeting. Three new members were admitted.

Mr. James Comley, gardener to Mr. F. B. Hayes, has started in company with Mr. Hayes on a transcontinental trip which is to last two or three months, during which time they expect to visit Japan.

The long established extensive nursery business of W. C. Strong, at Waban, Mass., has been sold, stock and all, to the Shady Hill Nursery Co., of Cambridge, Mass.

The cut flower trade shows an improvement all along the line.

Chicago.

A meeting of the subscribers to stock in the Chicago Cut Flower Exchange was held at the Sherman House last Saturday and after deciding that the board of directors should consist of eleven members the following were elected: O. P. Bassett, P. Blaumeiser, F. Stielow, W. N. Rudd, J. T. Anthony, E. Weinhoeber, P. J. Hauswirth, T. J. Corbrey, F. Kennicott, Jos. Curran, Adam Harter. A meeting of the board was called for the following Tuesday.

At the meeting of the board, at which every member was present, it was discovered that the election had not been in proper legal form, and the commissioners decided to call another meeting of the stockholders for Saturday, Oct. 22, to remedy the legal defects.

At the annual meeting of the Horticultural Society of Chicago held at the Grand Pacific Hotel last Saturday, officers for the ensuing year were elected as follows: W. H. Chadwick; Pres.; Fredrick Kanst, First Vice-Pres., J. A. Pettigrew, second Vice-Pres.; E. G. Uhlein, third Vice-Pres.; W. C. Egan, Sec'y; P. J. Hauswirth, Ass't Sec'y; W. S. Seaverus, Treas. The following Board of Directors was also elected: Geo. Schneider, P. D. Armour, C. L. Hutchinson, W. H. Rand, Andrew McNally, J. W. Ellsworth, S. W. Allerton. The three retiring members of the executive committee were succeeded by J. C. Vaughan, O. P. Bassett and G. L. Grant. It was announced that the Second Regiment Armory had been selected as the place to hold the coming

exhibition. A meeting of the executive committee was held immediately after adjournment at which many details connected with the exhibition were settled. Everything is now well in hand and indications are that the coming show will greatly exceed in extent and value any held in this city in the past. The Society has certainly succeeded in exciting a much livelier interest in horticultural matters among the amateurs of the city, and it is steadily growing in membership and power for good.

The flower market shows an advance since last week. Flowers of all kinds are comparatively scarce, and this has had a beneficial effect on prices. Roses of all kinds show an improvement in quality and an increase in price. Carnations are better in quality, prices about the same. Smilax shows an increased demand and an advance in price.

Very few chrysanthemums are in the market as yet; most of the earliest are disposed of by private contract to some leading retailers, so they do not enter the open market. Violets are coming in, but slowly. Sweet peas, though really over now, are rather more plentiful than last week, some excellent pink ones being seen. Tuberoses are still quite plentiful. Double sun flowers are gone, so are dahlias. Cosmos is only just coming in; it is rather poor as yet. Calendulas come in steadily from a few growers; they are not plentiful, but good. Though business in the city is reviving quite slowly, the wholesalers say that an increase in out of town orders has been very noticeable during the past week or two. Smilax does not seem actually scarce, but there is no more than the demand. It is usually good in quality. Asparagus is not very plentiful.

Toronto.

When Shakespeare wrote "now is the winter of our discontent" there were probably no florists worth mentioning, but it is not unlikely that he got his inspiration from having seen some frozen out gardeners walking the streets some bleak December. In these days the gradual approach of winter has a corresponding gradually increasing cheerful effect upon the enterprising florist which culminates into a climax of positive hilarity about Christmas time. After the first frost he greets his customers with a smile that says, "my turn is coming now"; in about another month a broad grin will say, "I am getting there," and the Christmas guffaw says, "I have got you now."

This city experienced three or four degrees of frost two days ago which had the effect of spoiling the appearance of most of the outdoor flowers; now yesterday a prominent gentleman in the trade—profession, rather—who has been taking free lunches down town and smoking a corn cob all the summer, was seen on the doorstep of a cheap restaurant smoking a cigar and your correspondent is therefore able to give your readers the interesting bit of information that trade is looking up in these parts.

Friend Bunyard gave us a call this week and reported business good and orders plentiful.

There are rumors of war in the association over a notice of motion given last meeting to wipe out a certain clause in the constitution. It is to be hoped that the boys won't allow their feelings to run away with their good judgment whatever they do.

The chrysanthemum show is beginning

to loom up pretty big now and the secretary and executive committee have been ordered to "get a wiggle on." E.

Baltimore.

Judging from the papers there should be plenty of work, for weddings, receptions, etc. are really becoming quite numerous, but, alas, work does not increase as rapidly as the desire for it on the part of the florist who has spent the summer in anticipating it, though all seem to agree that the season has opened.

Buds are marked up one cent at the Exchange and no difficulty in disposing of large consignments at that, in spite of the quantities of cosmos and dahlias that are on hand every day. Carnations are scarce and not very good. Smilax is in the same state and condition. The chrysanthemum will soon be reigning and the men who have gone into them largely will be reaping their harvest, while the growers of other stuff will hold their breath until the short reign is over and the rose again queen. Halliday Bros. are easily first with 'mums' this year. It is not so easy to say who will be second or third, and in this very difficulty lies the hope of a great show in November, for there will be many good growers represented, though none who cared to go into it so extensively as the Messrs. Halliday. It is a tedious and expensive operation to grow really first class plants, and it speaks well for the trade that so many have gone into it regardless of the trouble and cost.

October 5th we had the first killing frost, and now comes the demand for Dutch bulbs to fill the beds made vacant by "Jack." There seems to be about as many in sight as ever for all the talk about their not paying. Mack.

St. Louis.

Trade is gradually picking up, stock is good and plentiful.

A beautiful sight, may be seen just now is a field of dahlias situated just north of Carondelet Park. There are about four acres in all, one half of which is Princess Matilda, the other half is composed of small plants of various varieties.

J. M. Samuels, chief of the Department of Horticulture of the World's Columbian Exposition, made our city a visit Friday. He was entertained by Commissioner Gwynn of the Missouri Board, and together they visited the leading florists of the city and the Missouri Botanical Garden. Mr. Samuels said that Missouri would have one of the best exhibits at the Fair.

The event of the week was the parade and ball of the Veiled Prophet. The floral decorations of the hall room were furnished by Mr. Jordan. The decorations were on a large scale, as demanded by the size of the room, which is 300 feet long by about 100 wide, and 75 feet high. There is in the centre of the room a fountain twenty-five feet high. This was decorated with palms to the top, while the base was banked with roses. From each of the eight corners a reverse curve covered with roses extended to the second level of the fountain. The music platform was bordered with palms; 1,500 roses tied in bunches of three each were piled on the corners of the fountain and handed to the ladies as they passed in the grand march; when these were all removed there remained a basket of roses in the centre of which was seen the letters V. P. Hundreds of palms and thousands of roses were used. J. C. D.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

Roses.

MERMEIS, MME. DE WATTEVILLE, LA FRANCE, SOUV. D'UN AMI, MME. CUSIN, WARAN, RON SILENE, SAFRANO, CLIMBING PERLE. Strong, healthy plants.

From 3-inch pots, \$8.00 per 100; \$75.00 per 1000.
2 1/2-in. pots, \$5.00 per 100; \$45.00 per 1000.

CARNATIONS.

Strong, healthy, field grown plants.

Silver Spray, Grace Wilder, Fred. Creighton, May Queen, The Century, Portia, Mrs. Fisher, Victor Orient, J. J. Harrison.

1st size, \$8.00 per 100; \$75.00 per 1000.

2nd size, \$5.00 per 100; \$45.00 per 1000.

PURITAN, best new white.

GOLDEN TRIUMPH, Yellow.

AURORA, Pink.

\$2.00 per dozen; \$15.00 per 100.

Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

10,000 JACK ROSES

1 and 2 years old, on their own roots, well branched.

PRICE 100

2 to 2 1/2 feet high..... \$10.00

2 1/2 to 3 1/2 feet high..... 15 00

3 1/2 to 4 1/2 feet, extra large for plant-

ing out..... 20 00

Will send sample of 10 on receipt of \$1.00.

We have about 5,000 assorted PALMS, in 5 to 7-inch pots. Prices on application.

Jordan Floral Co.,

706 Olive Street, ST. LOUIS, MO.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSES.

TEAS..... \$30.00 per 1000

HYBRIDS..... 40.00 per 1000

Healthy plants, in 3-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE KY.

ROSE
ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$45.00 per 100.

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.

SEND FOR A COPY

— OF OUR —

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet..... \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen and shall this year grow no other for cut bloom.

HINZE'S WHITE..... per 1000 \$60; 7.00

MRS. FISHER..... 7.00

VIOLETS.

Neapolitan..... per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,

in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

Roses in Variety.

Hybrids, Teas and Ever-bloomers

A few thousand Thos. Hogg, Horlensis, Horlensis var. and paniculata grandiflora Hydrangeas, in 2 1/2-inch pots; are in prime order to repeat into 4-inch pots. Price \$5.00 per 100; \$40.00 per 1000.

Primulas, single, 2-in. \$6, 3-in. \$8 per 100.

FERNs: Adiantum princeps, 6 and 7-inch pots, \$10.00 and \$15.00 per 100.

We are still in our old location.

GEORGE W. MILLER,
1748 N. Halsted St., CHICAGO, ILL.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. RO E.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is a very strong, healthy grower, with liberal foliage, nearly every shoot producing a flower on long erect stems, of ivory whiteness and beautiful shape. I have a house full of them which is admired by every florist. My stock comes direct from the orientator.

Price of Plants in 3-inch pots, \$5.00 per dozen.

Price on larger quantities on application. Cash with the order.

J. COOK,
318 Charles Street, BALTIMORE, MD.

E. G. HILL & CO.,
Wholesale Florists,

RICHMOND, INDIANA.

Mention American Florist.

HARDY CUT FERNS

MOSS {SPHAGNUM AND GREEN SHEET.

A 1 IVY LEAVES.

BOUQUET GREEN AND FESTOONING of all kinds, in any amount on hand.

HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

AURORA

AND OTHER

Carnation Plants

FROM THE FIELD.

Send for price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

CARNATIONS. VIOLETS.

20,000 fine, stocky, field grown plants.	Per 100
ORANGE BLOSSOM.....	\$10.00
MAY FLOWER, fine fancy.....	7.00
SNOW BIRD, white.....	5.00
WHITE WINGS.....	5.00
WEST END, pink.....	5.00
TIDAL WAVE.....	6.00
GRACE WILDER.....	6.00
HINZE'S WHITE, extra fine stock.....	5.00
LIZZIE MCGOWAN.....	6.00
MARIE LOUISE VIOLETS.....	8.00

The above all fine healthy plants.

ADDRESS **E. B. JENNINGS,**
SOUTHPORT, CONN.
Lock box 254
CARNATION, VIOLET AND PANSY GROWER.
Mention American Florist.

CARNATIONS

30,000 field grown plants. Stock fine, healthy, bushy plants.

Hinze's White.....	Per 100
Orange Blossom.....	\$5.00
Snow Bird.....	10.00
Lizzie McGowan.....	6.00
Mayflower.....	6.00
White Wings.....	5.00
Fine strain of Fancies, \$5.00 per 100.	
5000 Marie Louise Violets, \$8.00 per 100. Extra fine plants, free from disease.	

Address **GEO. B. WHITEHEAD,**
GREEN'S FARMS, CONN.
Lock Box 116.

MARSCHUETZ & CO., FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

Mention American Florist.

TUBEROUS BEGONIAS.

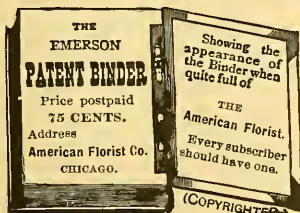
By middle of November dry tubers will be ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConnelville, O.

WANTED.

200 Beante de Pointvine and Francis de Arago Geraniums. Small lots accepted. State price and size of plants.

JOS. T. PHILLIPS, West Grove, Pa.



ROOTED CUTTINGS.

Carnations, Geraniums and Petunias.

CARNATIONS.

Of these I offer a very select list, containing only those that are profitable for cut flowers. It does not pay to grow everything. I try almost all of them and give you the benefit of the trial. Let me have a chance to price your orders.

GERANIUMS.

Ready now, a choice assortment of the best bedding varieties, that is sure to give satisfaction. Labeled they are \$2.00 per 100; without labels \$1.50 per 100.

PETUNIAS.

An entirely new set, selected from a large lot of seedlings; they are exceptionally fine. Price for the Doubles is \$3.00 per 100; for the Singles \$2.00 per 100. Stock of these is limited.

LIST READY NOW. SEND FOR IT.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

20,000 CARNATION PLANTS.

We offer fine FIELD GROWN PLANTS of the following varieties:

PRIDE OF KENNETT.	LAMBORN.	HINZE'S WHITE.	PORTIA.
MRS. F. MANGOLD.	GARFIELD.	MRS. CARNEGIE.	ROSALIND.
HINSDALE.	WM. SWAYNE.	Price, \$5.00 per 100; \$30.00 per 1000.	

J. L. DILLON, Bloomsburg, Pa.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

10,000 CARNATIONS.

Garfield, Hinze's.....	Per 100
ROSES—Albany, La France, Mermet and Safrano, from 2-inch pots.....	\$6.00, \$7.00 and \$8.00
Albany, La France and Wootton, from 3-in pots.....	6.00
Bride, Mermet, Safrano and Bon Silene, 2-inch pots.....	2.50
Asparagus Tenissimus, 3½-inch pots.....	8.00
Dracena Indivisa 2-in. pots.....	\$1.00 per doz. 8.00
Fern Pteris Serrulata, 3-in. pots.....	\$1.00 a doz. 8.00
" " " " 2-inch pots.....	6.00 a doz. 4.00
Grevillea Robusta, 15 to 18 in. high.....	\$2.00 a doz. 15.00
Pandanus Utilis, 4-inch pots, strong.....	\$5.00 per doz.

NATHAN SMITH & SON,
Adrian, Mich.
Mention American Florist

NANCY HANKS

bents them all, both

HORSES AND CARNATIONS.

Shade of the popular Grace Wilder but of stronger growth. Field grown plants of these and Day-break; also 35 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

CARNATIONS

A fine lot of Carnations, field grown.

For sale cheap.

Hinze's White.....	Silver Spray.....
L. L. Lamborn.....	Grace Wilder.....
Hector.....	Crimson King.....
American Flag.....	Portia.....
Tidal Wave.....	Alexandrie.....
\$8.00 per 100. Cash with order.	

W. M. ELDRIDGE, 11 S. Franklin St., Wilkes Barre, Pa.

NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,
use our **FLORISTS' GREEN THREADS.**

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
— WRITE FOR SAMPLES AND PRICES. —

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the **FLORISTS, NURSERYMEN**
and **SEEDSMEN** of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

CARNATIONS, FIELD GROWN.

GOLDEN TRIUMPH,

and other varieties. Send for list with prices.
A few hundred second size plants of Golden Triumph at a reasonable price.

R. T. LOMBARD, Wayland, Mass.

Field Grown CARNATION PLANTS

TUBEROSE BULBS.

CHAS. T. STARR,
Chester County, AVONDALE, PA.

Grace Wilder CARNATIONS

1000 EXTRA FINE PLANTS,
\$5.00 per 100.

GEO. E. BUXTON, Nashua, N. H.

GOLDEN GATE

Carnations, nice clumps, \$7 per 100.

VIOLETS,

Marie Louise, clumps, \$4.00 per 100.

N. S. GRIFFITH,
Jackson Co., INDEPENDENCE, MO.

CYCLAMEN PERSICUM GIGANTEUM

3-inch pots, showing bud, \$8.00 per 100.

CARNATIONS, Field grown.

LIZZIE MCGOWAN, MRS. FISHER, PORTIA
J. J. HARRISON, and others. Price \$7 per 100.
LOUISE FORSCH, fine plants, \$8.00 per 100.

Address **J. G. BURROW,**
FISHKILL, N. Y.

Asparagus Plumosus Nanus.

Fine, strong plants in 4-inch pots, \$25.00 per 100.

ERICA CAFFRA ALBA.

Fine bushy of this useful Heath, 4-in. pots, \$20 per 100.
CASH WITH ORDER.

PATTEN & CO., Florists,
Box 414, LOWELL, MASS.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

New York, Nov. 1-7—New York Florists' Club.
Wm Plumb, manager of exhibition, Madison Square Garden.
Philadelphia, Nov. 7-11—Pensylvania in Hort. Society. D. D. L. Parson, Sec'y, Horticultural Hall, Broad St.
Toronto, Ont., Nov. 8-10—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 8-10—St. Louis Florists' Club. Emile Schray, Sec'y, 41st Pennsylvania Ave. Hartford, Conn., Nov. 8-10—Hartford County Hort. Society. Julian S. Allen, Sec'y.
Boston, Nov. 8-11—Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 11—Hort. Society of Chicago. W. C. Egda, Sec'y, 62 Dearborn Ave.
Milwaukee, Wis., Nov. 8-11—Wisconsin Florists' and Gardener's Club. A. W. Bennett, Sec'y, 108 Wisconsin St.
Minneapolis, Minn., Nov. 8-11—Minneapolis Florists' Club. E. Nagel, Sec'y, 1118 W. Lake St.
Cincinnati, Nov. 8-12—Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Galt, Ont., Nov. 9-10—Galt Hort. Society. Edward Lane, Sec'y.
Worcester, Mass., Nov. 9-10—Worcester Hort. Society. E. W. Lincoln, Sec'y.
Montreal, Nov. 9-11—Montreal Gardeners' and Florists' Club. H. Stocking, Sec'y, 230 St. Denis St.
London, Ont., Nov. 9-11—London Gardeners' and Florists' Society. Wm. Gamgee, Sec'y.
Washington, Nov. 15-17—Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.
Baltimore, Nov. 15-18—Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Indianapolis, Nov. 15-19—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Pittsburg and Allegheny Florists' and Gardeners' Club. O. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.
Pittsfield, Mass., Nov. ——— Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. ——— Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
New York City, Nov. ——— New York County Hort. Society. T. J. Croper, Sec'y.
Providence, R. I., Nov. ——— R. I. Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

WE HAVE received the first part of the transactions of the Mass. Horticultural Society for the year 1892. This volume is of interest to the general reader as well as to those whose tastes lie specially in the direction of horticulture; it contains many interesting papers read and discussed at the meetings of the society.

WE HAVE received blooms of a new hybrid helianthus, a cross between *H. multiflorus* and *H. tuberosus*, originating with A. E. Wohlert of Altoona, Pa. It is of good color, broad petalled and said to be a profuse bloomer. It seems likely to be a desirable addition to the garden.

"TOMATO CULTURE" is a neat little volume sent out by A. I. Root of Medina, Ohio. It contains abundant information relative to the culture of tomatoes, both for canning factories and market trade. A very useful little volume for the truck farmer.

SWANGER'S BEAUTY is the name of a new verbenia received from J. A. Tracht & Son, Galion, Ohio. The color is bluish, striped with cerise; a very bright and

pleasing flower, which should give good effects in bedding.

The Cholera Scare.

From a letter dated Hamburg, Sept. 23, we copy the following extract:

"Your fears about Hamburg's commerce seem to be absolutely unjustified; we know here from which quarters the enormously exaggerated and partially invented reports about cholera are spread, in order to damage Hamburg. As always in times of such epidemics 95 per cent of the afflicted belong to the lower and poorer class of people, a great calamity no doubt but this remains without much influence on the trade in general. From your letters it appears that you in N. Y. are more anxious about the outcome than we here in Hamburg. Traffic and commerce go on here as usual, the epidemic is abating considerably, and the inhabitants have acted all the while in the most exemplary way. The State as well as private people have advanced already several millions to support the poor that are afflicted, thus suffering will be prevented as much as possible. About my own business I have no reason whatever to complain, and the last weeks especially have kept me very busy. No one objects to buy goods in Hamburg. The idea that cholera should be introduced through ordinary merchandise is acknowledged to be nonsensical and I am shipping goods to all parts of Germany without interruption."

Thus writes our correspondent who is in a similar business to our own.

AUGUST ROLKER & SONS.

Starting Musa Cavendishii.

Will any of the readers of the FLORIST kindly give me information about starting tubers of Musa Cavendishii for pot culture?

MRS. F. WELSCHKE.

Morris Plains, N. J.

NEWPORT, R. I.—The magnificent seedling canna raised this year by Mr. Jas. S. Cowles has been named Mrs. Fairman Rogers and was awarded a silver medal by the Mass. Horticultural Society at a recent exhibition. It is undoubtedly the best canna ever exhibited in America. It was one of a lot of 600 or 700 seedlings raised last winter and flowered for the first time in February or March. It grows to the height of about three and one-half feet. It has the habit of Mme. Crozy, which is one of its parents. The petals measure about two and one-half inches across, bordered with a very striking yellow which measures in some places a quarter of an inch in width. The yellow extends in some cases almost entirely over the back of the petals.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a practical florist and gardener, single, good references given. Address KAMM, care The Price, Lake Geneva, Wis.

SITUATION WANTED—By young man, 18 years experience; age 21. Good references. Address with particulars, A. G. care American Florist, Chicago.

SITUATION WANTED—As gardener or first assistant by thoroughly competent man, age 28. Good references. Address N. care The Florist's Exchange, 110 Fulton St., New York.

SITUATION WANTED—By a thoroughly practical florist and gardener. Private place preferred. Married, one child only. Address, starting wages, etc. Box 341, Black River Falls, Wis.

SITUATION WANTED—By first-class rose grower, etc. Reputation as such well known by best florists in the country. Address A. G. care American Florist, Chicago.

SITUATION WANTED—By young man in rose and carnation grower; sober, honest and good worker. State wages. Steadily work wanted. Address E. L. care American Florist, Chicago.

SITUATION WANTED—By first-class florist; sober and reliable; commercial or private place; 26 years experience in Europe and United States. Best of references. Address W. K. care J. C. Vaughan, Chicago.

SITUATION WANTED—As florist; 18 years' experience in Europe and United States. Placed in propagating and growing of roses, palms, ferns, carnations, forcing of bulbs, etc. H. care Am. Florist.

SITUATION WANTED—By a florist; experienced in landscape gardening, cut flowers and vegetables; age 28 years, single. German place preferred. Address PETER TAUSEALD, 270 E. Federal Street, Youngstown, Ohio.

SITUATION WANTED—As florist by single man; German; 9 years' experience in Europe and America in plants and cut flowers. Best of reference given. State wages. Illinois preferred. Address G. W. 115 East 16th St., Minneapolis, Minn.

SITUATION WANTED—Private place preferred. Commercial or charge of park grounds; age 29, sober and reliable. Good and references furnished only good, permanent position accepted. State wages, etc. R. WASHINGTON, 264 Vernon Ave., Chicago.

SITUATION WANTED—As foreman or manager; is thoroughly practical in landscape work, planting, etc. Orchids, palms, stove and greenhouse plants a specialty. Any lady or gentleman can apply to Mr. Garne, 636 Fifth Ave., New York, as to eligibility and ability. E. F. FRIDMAN, Baltimore, Md.

SITUATION WANTED—German, 22 years of age, 2 years in this country, 20 years of experience, without youth, in almost every branch of the business. Able to take charge of a private or commercial place. State of Illinois preferred. Good references furnished only with or without bond. Address CLEM. CARSTEN, Edinburg, Ill.

WANTED—A man who understands the propagating of hard wood nursery stock. Single man preferred. PHOTACAP, care Am. Florist.

WANTED—A good, sober man, who can speak English and German, to take charge of a retail floral store. FRED GEAR, JR., 23 Vine St., Cincinnati, O.

WANTED—Florist experienced in selling cut flowers and designing, for a floral department in a dry goods store. Address SYNDICATE TRADING CO., 120 Franklin St., New York.

WANTED—Hot water boiler to heat 100 feet glass; also 2-inch pipe, hitches, Curnody or Furman preferred. Must be cheap and in good condition. W. R. L. DWYER, New Petersburg, Highland Co., O.

WANTED—Hot water boiler and 1,000 feet of pipe. Would like decorative and other plants and glass for 25¢ per square in a well improved art store (firm in Stark county, Ill.). Farm rents for \$3.00 per acre cash. Answered once. T. Z. M. Kovance, Ill.

FOR SALE—One No. 6 Weathered boiler, 1,500 feet 4-inch pipe and built pipe. Address MRS. G. WALDBAUER, Sudbury, west, Mich.

FOR SALE—Established seed business with a good local and mail trade in a northern city of 30,000 inhabitants. Fine opportunity to add plants and cut flowers. A grand good chance. Light out on address SEEDS, care Am. Florist.

FOR SALE—All or part interest in one of the established florist business in Chicago. Plant consists of 11 new houses; 30,000 square feet under glass. Have just rebuilt. Homes all filled with new stock 5 acres of ground; retail store in city with good lease and location. Address G. H. care American Florist.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam, 28 feet long, last built into heating, recently built. 30 acres of land; abundance of fruit; large house containing 15 rooms, new, built 1891; 25 miles of Philadelphia, one mile from station. Will be sold on account of ill health. Possession any time. Address ISAAC LARKIN, Toughkenamon, Chester Co., Pa.

MILLANG BROS., Wholesale Florists, 5 WEST 27TH STREET, NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street

MICHAEL A. HART, Wholesale & Commission Florist, 113 WEST 30TH STREET, NEW YORK.

The finest Roses, Violets and Carnations.

Branch, at Cut Flower Exchange, 408 E. 34th St.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept'l.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers and Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.
Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON, —*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING RUBUS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
* **WHOLESALE** *
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

© Wholesale Market.

Cut Flowers.

Roses, Perles, Gontiers, Niphotos.....	NEW YORK, Oct. 11.	1.00@ 2.00
" " Mermet, Brides, Hoste.....	2.00@ 3.00	
" " Waterville, Cusin.....	2.00@ 3.00	
" " La France, Albany.....	4.00@ 5.00	
" " Beauty.....	5.00@ 25.00	
Carnations.....	1.00@ 1.25	
Valley.....	50@ 1.00	
Violets.....	50@ 1.00	
Cosmos.....	1.00	
Adiantum.....	12.00@ 15.00	
Smilax.....	50 00	
Asparagus.....	BOSTON, Oct. 11.	
Roses, Niphotos, Gontier.....	2.00@ 3.00	
" " Bride, Mermet, Wood.....	3.00@ 4.00	
" " La France, Meteor.....	4.00@ 6.00	
" " Perle, Sunset.....	3.00@ 4.00	
" " Beauty.....	15.00@ 25.00	
Carnations.....	1.50@ 2.00	
Asters.....	1.00@ 1.50	
Valley.....	4.00	
Tuberose.....	75@ 1.00	
Stephanotis.....	50@ .75	
Violets.....	50@ .75	
Anemone Japonica.....	1.00	
Asparagus.....	10.00	
Adiantum.....	1.00	
Smilax.....	12.50	
Roses, Beauties.....	PHILADELPHIA, Oct. 11.	
" " La France, Albany, Mermet, Bride.....	12.50	
" " Perle, Gontier.....	3.00	
" " Marie Guillot, Perle, Niphotos.....	3.00@ 4.00	
" " Beauty.....	2.00@ 3.00	
Carnations.....	1.00	
Valley.....	50@ 1.00	
Bouvardia.....	2.50@ 3.00	
Tuberose.....	2.50@ 3.00	
Single Violets (Ranches).....	2.00	
Smilax.....	15.00@ 25.00	
Adiantum.....	1.00	
Assorted roses.....	CHICAGO, Oct. 11.	
" " Beauty.....	4.00@ 5.00	
" " Carnations.....	10.00@ 15.00	
" " Violets.....	1.00@ 1.50	
" " Violets, single.....	.75	
" " Chrysanthemum.....	2.00@ 3.00	
" " Smilax.....	16.00@ 20.00	
" " Asparagus.....	15.00	
" " Gladioli.....	1.00@ 5.00	

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
— **WHOLESALE.** —
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMITH, The Florist,
GROWER OF
Fine Roses and other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
— **WHOLESALE** —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S,
— **WHOLESALE** —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

WHOLESALE
FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S 16th Street, Philadelphia, Pa.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST., ST. LOUIS, MO.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

Bulletin Am. Seed Trade Ass'n.

September 25, 1892.

At the annual meeting of the American Seed Trade Association, held at Hartford, Conn., June 16th, a committee on

WEIGHTS AND MEASURES

Was appointed and its special duty named as the consideration of the Cental System (making all quotations per 100 lbs. instead of per bushel), in all sales of seeds, and instructed to formulate some plan for united action in the matter.

After careful consideration and consultation with some of the leading houses in the trade, who have without exception favored it, we now recommend that said system be adopted in buying and selling Clover, Timothy, Blue Grass, Orchard Grass, Red Top, Lawn Grass, Millet, Hungarian, and all kinds of grass seeds; also Buckwheat, Cane, Broomcorn, Sunflower, Osage, Hemp, Castor Beans and Pumpkin Seed, and we most earnestly request that all seedsmen and dealers in the United States and Canada,

ADOPT THIS SYSTEM BEGINNING JANUARY 1, 1893.

And use the same in preparing all catalogues and other printed matter to be issued on or about that date for the spring trade of 1893, and thereafter.

The advantages to be gained are manifold. The legislatures in the various states have established "legal weights" stating number of pounds which shall constitute a bushel, and these vary so greatly that much controversy is caused in interstate commerce, which cannot occur under the Cental Plan. This change will also save considerable labor in receiving, shipping and billing out goods and do away with a large proportion of the vexatious and costly errors which often occur under the old plan.

We suggest and recommend that Clover, Blue Grass, Red Top, Orchard Grass, etc., be quoted by the pound, while Timothy, Millet, Hungarian, Buckwheat, and the lower priced seeds be quoted by the 100 pounds.

At this time we do not recommend that the change include Peas, Beans, Corn, Flax, Wheat, Oats, Rye and Barley, but from present outlook we believe that it is only a question of time when we can include them all.

We would like an expression of your views on the subject and trust you will adopt the system on the date named.

Address Chas. N. Page, Des Moines, Iowa, Secretary of Committee.

J. BOLGIANO, Chairman,
D. I. BUSHNELL,
F. W. BARTELEDS,
J. CHAS. MCCULLOUGH,
CHAS. N. PAGE,
Committee.

NEW ORLEANS, LA.—R. Maitre is reported to have sold out.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILIAM HARRISII AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS,

114 Chambers Street, NEW YORK.

Illustrated Catalogue on application.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street, NEW YORK CITY.

Ask for General Wholesale Catalogue.

ENGLISH
MUSHROOM
SPAWN.

Large importation
of fresh stock just
received.

1 lb 15c.; 10 lbs. \$1.25;
100 lbs \$9.00.

W. W. BARNARD & CO.,

6 & 8 N. CLARK STREET,

CHICAGO.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order
soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

Mention American Florist.

Roman Hyacinths.

We have a few thousand White Romans,
12 to 15 cms. to close out.

Let us hear from you if you can any.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

WANTED

80,000 Tuberose Bulbs, Pearls.

Bulbs to be 4 to 6 inches in diameter; to be delivered
March 1st. State price and mail sample.

ADDRESS NANS & NEUNER,
LOUISVILLE, KY.

LILIAM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplis
Etc., Etc. For prices examine
Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E. NEW YORK.

Send for Catalogue of
JAPAN BULBS, SEEDS,
AND SHRUBS.

ARAUCARIAS,
AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

Bulbs & Plants.

SEND FOR CATALOGUE.

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

LILY of the VALLEY.

(Hamburg grown, best for early forcing).

1,000..... \$ 7.50

10,000..... 72.50

50,000..... 337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.



TRY DREER'S

GARDEN SEEDS

Plants, Herbs, and
Fruit-seeds. They are
the best at the lowest prices.
TRADE LIST issued quar-
terly, mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such
as Apple, Pear, Myrobalan Plum, Mahaleb and Maz-
zard Cherry, Angers Quince, Small Evergreens, For-
est Trees, Ornamental Shrubs, Roses, etc. The
largest stock in the country. Prices very low.
Packing secured. Catalogue free. Send for
quotations before placing your orders elsewhere.
Agents for U. S. America and Canada.

C. C. ABEL & CO. P. O. Box 920, New York.

Cincinnati.

At the regular monthly meeting of the Cincinnati Florist Society, October 8, the attendance was not so large as was desired, yet the meeting was one of interest. Mr. R. Witterstaetter had on exhibition three seedling chrysanthemums from *Gloriosum*, one a beautiful pink, the others white. They are decided acquisitions, being larger than *Gloriosum*, better foliage and better stems. There will be no stock of these on the market until '94. The same gentleman also had some very handsome seedling carnations on exhibition.

To Mr. C. L. Mitchell is credited the honor of being the first in the market with cut blooms of chrysanthemums, he having *Gloriosum* in on the 6th inst., and to-day he cut 150 grand blooms.

Our floral exhibition and chrysanthemum show, which opens on November 8, gives promise of being the grandest exhibition ever held in the United States, and we expect to see our brother florists from all over the country represented and we extend a hearty welcome.

Our retail florists are all busy. The Cincinnati Floral Co. have had several large decorations and several booked to follow. Another florist has a wedding decoration for the 28th that will use probably 10,000 mums.

The wholesale trade never was better for this time of year and stocks are grand, especially Am. Beauties.

On October 29 a special meeting of the Cincinnati Florist Society will convene to finish arrangements for our great show; let all the boys be present.

E. G. GILLET.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIIUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.
Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview
buyers or reply to any communication addressed to
him at 205 Greenwich Street, New York City.

Mention American Florist

Orchids Cheap as Good Roses.
BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

— Exporters, Importers and Growers of —

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

LILY OF THE VALLEY PIPS.

Selected three year old crowns of the true large flowered variety,
from consignment due in November, ex-steamer wharf at New
York. Per case of 2,500, \$19.00.

MARIE LOUISE VIOLETS, strong runners, free from disease,
\$20.00 per 1000. Smilax Seed, per oz. 30 cents; per lb. \$3 00.

427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NURSERIES: MENLO PARK, CALIFORNIA.

HARDY PERENNIALS.

NOW is the best time to plant them. Following are some of the most beautiful
and useful for florists' purposes, and at prices that defy competition.

	EACH.		EACH.
Achillea "The Pearl".....	5 cts.	Iris Siberica sanguinea.....	10 cts.
Coreopsis lanceolata.....	8 cts.	Gypsophila paniculata.....	12 cts.
Gaillardia grandiflora.....	10 cts.	Helianthus Maximilianii.....	12 cts.
Delphinium sinensis in variety.....	12 cts.	Helianthus rigidus semiplenus.....	12 cts.
Phlox "The Pearl".....	10 cts.	Pyrethrum uliginosum.....	12 cts.
Iris Germanica in variety.....	3 cts.	Salvia pratensis.....	12 cts.

For other varieties of the most extensive collection in America, see our fall trade catalogue. The above prices are for quantities not less than 25 of each variety.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

• YOU WILL ALL WANT THE •

SNOW GREST DAISY

Now in the time to put them in for
Christmas blooming.

The most enterprising in the trade are taking
hold of it. The 25,000 nearly all gone. Don't
forget that we are headquarters and owners of the
ORIGINAL PLANT and have the largest stock in the
world and offer them now 12 for \$1.00. Sample
plant with bloom for 12 1c. or 6 2c. stamps, post
free; 100 for \$8.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy
Seed, and realize all that can be desired in the
Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/4-oz.
\$1.50; 1/2-oz. \$2.00; ounce \$3.00.

New Crop Mammoth Verbena Seed in fine mix-
ture; plenty of white; finest crimsons and richest
purples, with all the intermediate colors. In
packets of 1000, seeds 60c; 5000 for \$2.25, while
they last.

Also the beautiful Sweet-Scented and novel
Dakota Primrose Ice King. 100 seeds 25c.
Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

Mammoth Pansies.

From the most celebrated strains of
Europe and America.

\$5.00 PER 1,000.

Address **J. G. Burrow,**
FISHKILL, N. Y.
Mention American Florist.

SPHAGNUM MOSS.

Fine, clean stock: 1 Bale, \$1.00; 5 Bales, \$4.00;
10 Bales, \$11.00.

SALZER SEED CO., LA CROSSE, WIS.

Watch this Space

for what we have in the
near future.

S. O. STREBY,

Box 77. UPPER SANDUSKY, O.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, Magnolia glauca, Kalmia
latifolia, Xerophyllum, collected. Fine col-
lection Hardy Perennials and Hardy Flow-
ering Shrubs.
Wholesale Trade List FREE. Send samples of
what you want

ROGERS NURSERIES, Moorestown, N. J.

Azalea Indica.

Tremendous stock of large plants specially
grown in pots for forcing and exportation.

For prices and particulars, apply to

EDW. PYNAERT, Nurseryman,
GHEENT, BELGIUM.

Always mention the AMERICAN FLO-
RIST when writing to advertisers

Chrysanthemum, Carnation and Orchid EXHIBITION

UNDER THE AUSPICES OF THE

Bay County Horticultural Society, of Bay City, Mich.,
TO BE HELD IN NOVEMBER, 1892.

PRIZES, SO FAR AS ARRANGED, \$1,028.50.

SEND FOR PRIZE LIST.

JOHN IRVINE, PRES. T. J. COOPER, Sec'y.

CLASS 1. Chrysanthemums—Cut Blooms.

Open to all outside Bay County. First. Second. Third.

1—Best 100 long stem cut blooms, 20 varieties, five of each.....\$150.00 \$50.00 \$25.00

CLASS 2. Chrysanthemums—Cut Blooms.

Open to all.

1—Best Seedling, any color, never before exhibited.....\$25.00

CLASS 3. Orchids.

1—Best display of Orchid plants in bloom.....\$150.00 \$50.00

2—Best display of cut blooms.....25.00 10.00

CLASS 9. Carnations.

1—Best 125 long stem cut blooms, five varieties, 25 of each.....\$ 50.00 \$20.00

C. C. Abel & Company

P. O. Box 920, NEW YORK,
FLORIST'S, NURSERYMEN'S AND SEEDS-
MEN'S AGENTS.

For the following—

WELL KNOWN AND RELIABLE HOUSES,
For whom we solicit your orders:

C. G. VAN TUBERGEN, JR., Florist and Seeds-
man, Haarlem, Holland. Choice Dutch
Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen,
Issy, France. Roses, Fruit and Forest
stocks.

V. LEMOINE & SONS, Florists, Nancy,
France. New varieties of Plants and Bulbs a
specialty, etc.

ERNST RIEMSCHEIDER, Florist and Seeds-
man, Altona, Germany. Berlin Lily of the
Valley a specialty.

THE TOTTENHAM NURSERIES, Ltd'd,
Dedhamst. Netherlands. Managing Di-
rectors: A. M. C. Jongkindt Coninck, A. M. C.
Vander Elst.

EDW. VAN COPPENOLE, Nurseryman,
Ghent, Belgium. Established 1850. Large cul-
ture of Acanthaceae, Azaleae, Indica and Molis,
Bay Trees, Begonias, Gloxinias, Palms, Rhododen-
drons, etc., etc.

ALPHONSE ROCHE, Orléans, France.
Extensive and special plantation of immortelles
and dyed in all colors and shades.

Catalogues (mention which) free on application
when received for distribution.
All orders for these houses should be plainly
written and addressed to us.

Mention American Florist.

LOUIS BOEHMER,

Nos. 4, 5 and 28 Bluff,

YOKOHAMA, - JAPAN,

Begs to inform the trade that he will sell
for cash, and freight prepaid in Yokohama, to
every one who will favor him with an
order. Catalogues on application.

The freight has to be paid in U. S. gold
exchange; the goods are, however, paid for
in Mexican dollars.

CYCAS REVOLUTA, per 100,000 pounds, @ 5 cents
Mexican silver dollars in Yokohama, freight to
San Francisco charged for extra.

CYCAS REVOLUTA, 10,000 pounds, @ 6 cts. Mex.
" " 1,000 pounds, @ 7 cents Mex.

PLECTOGYNE VARIEGATA, 30 cts. per 3-inch pot.

RHAPIS FLABELLIFORMIS, 25 cts. per shoot.

For LILY BULBS, ETC., apply for Catalogue.

LOUIS BOEHMER,

Nos. 4, 5 & 28 Bluff, Yokohama, Japan.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across,
\$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun
perfectly, making it one of the most desirable plants for Vases,
Window Gardens, etc. On ordinary grown plants in 5-inch pots the fronds reach a length of 24 to
36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will
stand more handling and fill up much better than most of the palms used for this purpose. Also
desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

Bay City, Mich.

ASTILBE JAPONICA VAR. GRANDIFLORA.

“THE PEER AMONG FORCING PLANTS.”

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. “The latest blooming and most
fragrant of its family.”

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) THE READING NURSERY,
JACOB W. MANNING, Proprietor. READING, MASS.

Association “Flora”

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from Novem-
ber until May.

ADDRESS

P. OUWERKERK,

P. O. Box 1845.

NEW YORK.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon
application.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book

of 160 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

St. Paul, Minn.

St. Paul has been severely afflicted by hail storms during the past season, having one as early as April, while the last, which occurred October 1, was extremely violent, doing much damage. Most of the florists escaped without injury, not being in the track of the storm, which was centered in the heart of the city. E. F. Lemke is about the only florist who sustained any serious damage, so far as your correspondent has learned.

St. Paul is destined to be without a flower show this year, chiefly owing to a lack of harmony and co-operation among the florists. Some of the leading citizens interested themselves in the project and offered generous help, but the trade seemed unable to see the benefit to be derived from such an exhibition and it was finally dropped.

Among those building this season C. Hansen, E. F. Lemke and L. L. May have each added from 10,000 to 15,000 feet of glass and the Oakland Cemetery is adding about 5,000 feet, besides lesser additions made by others.

AUG. S. SWANSON.

Springfield, Mass.

In justice to the florists within one hundred miles of Springfield, who have had thrown at them the "cut prices" at which carnations have been sold here, ten cents a dozen, it should be stated that six of the nine florists who sell cut flowers have agreed to sell for not less than thirty cents a dozen during September, thirty-five during October, forty for November, and fifty cents for December and on until after Easter. While the others are agreed to sell "as the stores do" they haven't signed the list. Prices have been advertised quite extensively, so that dealers about here have felt it, and the AMERICAN FLORIST is a good messenger to carry them the good news.

W. F. GALE.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

We are the People!
Who? **KOFFMAN,**
Where? **WALDEN,**
Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? **ALL THE YEAR AROUND.**

Also *Adiantum Cuneatum Fronds*
At \$1.25 per 100.

And he pays the Express.



WHITE DOVES
FOR FLORISTS.

Largest and finest stock in the United States.

A. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

AGENTS:
J. C. Vaughan, Chicago, Ill.
H. Byersdorfer & Co., Phila., Pa.

BOWLS. CHINESE SACRED LILY. BOWLS.



No 1 and No 2 BLUE OWARI.



No 3 and No 4 JAPAN IMARI.

BULBS planted in these
Bowls increase your sales
100 fold.

Direct from Japan.

No. 1 BLUE OWARI.

Extra fine Porcelain set of 3
bowls, 7, 8½ and 10 inches, per
set, \$1.50. No. 2, 10 set of 3
bowls, 5, 6 and 7 inches 75c.

No. 3 JAPAN IMARI.

Design in blue, red and gold;
set of 3 bowls, 7, 8½ and 10
inches \$1.60. No. 4, do. set of
3 bowls, 5, 6 and 7 inches, 5c.
Not less than 4 sets sold.

Five per cent off on orders
for 12 sets. 10 per cent off on
orders for 25 sets. We also
furnish Bulbs at regular
wholesale prices.



A. BLANC & CO., 314 N. 11th Street, PHILADELPHIA, PA.

Headquarters for RARE CACTI, and for ELECTROTYPES.



Fancy.



Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

J. Horace McFarland Company

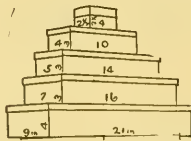
Have to say that their advertisement in September 22d Florist did the business, and that their capacity to December 31, 1892, is entirely booked. No more large Catalogues will be promised for delivery before January 10, 1893, and later; plenty of room for small work, though. Come along NOW for January and February. Address us for any Florists' Printing, Binding, Engraving and Electrotyping, at

MOUNT PLEASANT PRINTERY,

By a timely purchase of over 50 tons of good papers, we have protected our early customers against the sharp advance in paper.

Harrisburg, Pa.

Paper Boxes FOR FLORISTS.



All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street, **CHICAGO**

BLOOMINGTON (PHOENIX) NURSERY
800 ACRES, 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of
FRUIT and ORNAMENTAL TREES, Shrubs,
Roses, Vines, Small FRUITES, Hedge Plants,
FRUIT and FOREST TREE SEEDLINGS
Fruit Catalogue mailed free. Established 1862
PHOENIX NURSERY COMPANY
Successors to HENRY WATKINS & CO., BIRMINGHAM, ALA.

Please mention the American Florist
every time you write any of the
advertisers on this page.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
—BY THE—
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the
Scale, Woolly Aphis and Insect
Pests of any and all descriptions. It may
be as freely used in the conservatory, garden
and greenhouse as in the orchard or vine-
yard. It is non-poisonous and harmless to
vegetation when diluted and used according
to directions. It mixes instantly with cold
water in any proportion. It is **Safe, Sure**
and **Cheap**. No fruit grower or florist
should be without it.

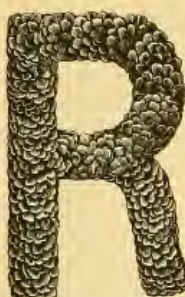
Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET.

FLUSHING, Queens, Co., N. Y.
Mention American Florist

ROSES. Our TRADE DIRECTORY contains the
date of introduction and the name
of the introducer of all the roses in commerce in
America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.



W. C. KRICK'S

PATENT
Florists' Letters, Etc.
Highest Award where-
ever exhibited.

These Letters are made of the best im-
mortalized, wired on
wood or metal frames
having holes drilled
in them to insert
toothpicks, by which
to fasten them in the
design. All infringe-
ments prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 15c. per 100.
Before purchasing
send for free sample
and Catalogue and
compare with any
other letter in the
market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAY-
ESDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.;
A. D. HOLKER & SONS, N. Y.; ED. S. SCHMID, Wash-
ington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.;
T. W. WOOD & SONS, Richmond, Va.; J. A. SIM-
MERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent
fastener with each letter.

With orders for 500 letters we give away a nicely
stained and varnished box. See cut in next week's
American Florist.

AGENTS: A. Holker & Sons, New York; F. E. Mc-
Allister, 22 Dry St., N. Y.; E. Kaufman, Philadelphia;
H. Bayesdorfer & Co., Philadelphia, Pa.; A. D. Perry
& Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendall,
116 Ontario St., Cleveland, O.; E. H. Hunt,
79 Lake St., Chicago; Wisconsin Flower Exchange,
131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th
and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons,
6th and Marshall Sts., Richmond, Va.; Jas. Vick's
Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.;
C. A. Kuehn, St. Louis; Marchezut & Co., 23 N.
4th St., Philadelphia, Pa.
J. A. Simmers, Toronto, Ont., Agt. for Canada.

SCOLLAY'S

IMPROVED

PUTTY BULB,

For Glazing Sash, Etc.

—ALSO THE—
Patent Plant Sprinkler

For sale by your Seedsmen,
or sent, postpaid, for \$1.00.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave.,

BROOKLYN, N. Y.

Send Stamp for Catalogue.

A FEW REMARKS

ON THE SUBJECT OF CLEAR
CYPRESS MATERIAL.

CLEAR CYPRESS has been proved by long
experience to be the best wood for
greenhouse construction.

WHEN BUILDING you want the best and
only the best.

I HAVE BUILT GREENHOUSES FOR YEARS,
but have advertised this branch of my
business only three months past.

EXPERIENCE COUNTS, and I have shipped
houses to all parts of the country from
Maine to Texas.

CARRY A STOCK OF CYPRESS ON HAND AT
ALL TIMES, and can furnish you with
sash bars or ventilating sash of any
size.

I DO NOT WANT THE EARTH, but am satis-
fied with a reasonable profit.

Write for Estimates and Prices.

Address

LYMAN FELHEIM,

Erie, Pa.

Mention the American Florist when
writing to advertisers on this page.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. ONE HUNDRED different
shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise,
Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39, Murray Street,

NEW YORK.

Mention American Florist.



FINE · LITHOGRAPHIC · WORK · IN · COLORS.

• • SEED BAGS, • •

÷ NURSERYMEN'S · PLATES, ÷

CATALOGUE COVERS,

STECHER LITHO. Co., ROCHESTER, N. Y.

BUTTED GLASS SASH BARS.

Does away with all
putting and trouble
in replacing broken
lights of glass. We
have been busy fill-
ing orders for this
kind of a bar, in

Clear Cypress.

Shall we book your
order next?

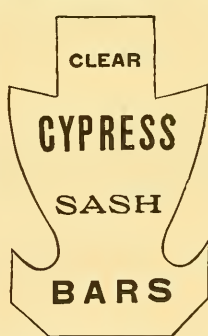
Enclose 2c. stamp for
sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgrt. LOCKLAND, OHIO.



CYPRESS GREENHOUSE MATERIAL



HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

TOBACCO STEMS.

Put up in bales of 200 lbs. at
\$1.50 per 100 lbs. Cash with
order. F. o. b. cars Chicago.

LAKE CITY FLORAL CO.,
48 Adams Street, CHICAGO.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Lynn, Mass.

The Houghton Horticultural Society of Lynn held its annual exhibition on Tuesday and Wednesday, September 20 and 21. A good display of tropical plants was made; Wm. Stone, Superintendent of Pine Grove Cemetery, W. C. Lewis, and S. H. Davenport contributing largely to this exhibit. The cut flower specimens were not as good as in previous seasons.

Were there several large private places and more interest manifested among the commercial florists of whom there is an unusually large number in this city, a much larger and better exhibit of plants and flower might have been made.

The exhibit of fruit, both for quantity and quality is well worthy of mention. The pears, for which Lynn is famed, were particularly good.


On Thursday evening the annual banquet took place which was largely attended, many of Lynn's noted speakers being invited guests. There was a fine musical and literary entertainment followed by a collation for which the ladies of the society are entitled to especial praise.

It may be well here to make one suggestion, namely, that the society have an annual election rather than a re-election of present officers. S.

Patents recently granted.

Bouquet and badge holder, to J. B. Hannan, Widdowville, O.; Lawn mower, to H. L. Freeman, Lexington, N. C.; Lawn mower, to William L. Frisby, Syracuse, N. Y.; Pruning implement, to F. P. Kern, Missoula, Mont.; Pruning implement, Wm. B. Sunderland, Green Island, N. Y.; Root cutter, David Maxwell, St. Marys, Canada; Sowing Machine, to Emil G. Thoren, Eristianstad, Sweden; Insecticide Distributor, to R. J. Falley, Leesville, Tex.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

OUR . . . 
HALF-TONE

ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 60 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.
H. W. EAMES CO., Milford, Mass.,

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

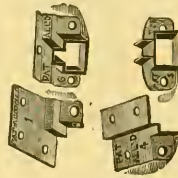
Best in the market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make is the best in the market. Bear in mind that freight rates are very low from this point, and we claim our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFLE & CO., SYRACUSE, N. Y.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist's.

2,000 POUNDS BROMUS

FOR SALE

at 20 cents per pound C. O. D.

THEO. SPADING, New Buffalo, Mich.

YOU CAN

SAVE MONEY BY
PURCHASING
AND GLASS BY USING

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.
272 Freeport St., BOSTON, MASS.

CARNATION CULTURE; BY L. L. LAMBORN

Third Edition containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

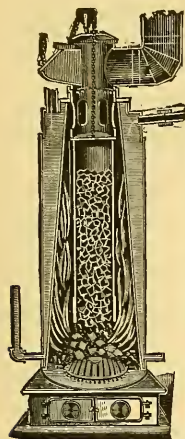
A. DIETSCH & CO.,

CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING &c



Chicago 111 Foot of Sangamon Street.

Always mention the American Florist when writing to advertisers.

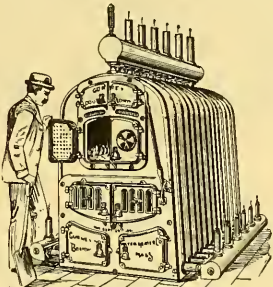


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by **THE S. WILKS MFG CO., CHICAGO, ILL.**
SEND FOR CATALOGUE.

THE LATEST AND BEST
for heating
GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

The
Gurney
Double
Crown
Hot Water
Heater.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

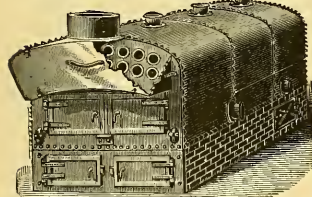
Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

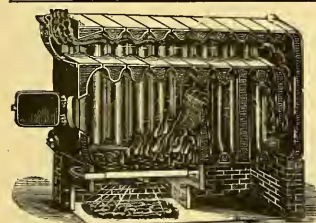
163 FRANKLIN ST., BOSTON.

Selling Agencies: { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Philadelphia: J. C. TRACHSEL, 246 Arch St.

KROESCHELL BROS.
IMPROVED
Greenhouse x x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

GARDENING

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language *that they can understand.* Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO., Monon Building, Chicago.**

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE

BENCH TILE.

Used by all the leading Growers and Horticultural Builders.

For testimonials, circulars, etc., address

UPLAND GREENHOUSES,

W. P. WIGHT,

MADISON, NEW JERSEY.

JULIUS TESMER & CO.,

Manufacturers of all kinds of

Ice Boxes

ESPECIALLY FOR FLORISTS,

937 to 941 N. Western Ave., CHICAGO.

— Telephone West 670. —

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.

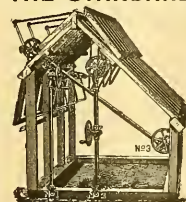
THE STANDARD Ventilating Machines

Received best awards at

BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.



Index to Advertisers.

Abel C C & Co.	241	245	747
Adv Rates, etc.	242		
Andorra Nurseries	242		
Bailey F. A.	245		
Barnard W. W. & Co.	244		
Bay Co Hort Soc.	247		
Bay State Hdw Co.	249		
Berkshire Hort Soc.	249		
Berger H H & Co.	244		
Blane A & Co.	248		
Buchner Louis	247		
Bonsell Jos E & Son	243		
Boston Letter Co.	249		
Brackentridge & Co.	246		
Brace L B.	248		
Brainer & Richter	246		
Burns & Haynor	246		
Burrow J G & Co.	241		
Coxton Geo E.	241		
Carman R W.	248		
Cardomy J D.	251		
Chilly H E.	249		
Cook John T.	241		
De Lamater Iron Wks	252		
Hutchell & Co.	249		
Dillon J L.	241		
Dreer H A.	241		
Raines H W & Co.	249		
Eckhardt Theo.	244		
Eldridge W M.	241		
Elliot W H.	241		
Ellison Wm.	243		
Felt H F & Co.	245		
Felheim Lyman.	249		
Field S B.	245		
Gardening Co The	251		
Gardner & Co.	245		
Gibson J C.	246		
Gonzalez & Co.	245		
Griffith N S.	241		
Gurney Heater Co.	241		
Hall Asa H.	241		
Hancock Geo.	251		
Hart James.	249		
Hart Michael A.	242		
Hartford & Nichols.	249		
Hart Albert M.	244		
Hesser W J.	245		
Hewes A H & Co.	250		
Hill E. G. & Co.	249		
Hilppard E.	251		
Hitchings & Co.	252		
Hocker H M Co.	251		
Hulsebosch Bros.	244		
Hunt F L.	243		
Hunt M A.	249		
Hunter & Purdy	243		
Irvine John Co.	247		
Jennings E B.	241		
Joosten C H.	241		
Jordan Floral Co.	249		
Kennell Bros.	245		
Koffmann E.	248		
Krick W C.	249		
Kroschell Bros.	251		
Kuen C A.	243		
Lake City Floral Co.	249		
Laupert J J.	245		
La Roche & Stahl.	243		
Lockland Lumber Co.	249		
Lombard R T.	241		
Long Dan B.	243		
Lonsdale Edwin.	243		
McBride Alex.	243		
McCarthy N F & Co.	243		
McFarland J H.	247		
McFarland J H Co.	248		

McKellar & Sperry.	243
Manz J & Co.	249
Martin Hart & Co.	251
Marsden & Co.	241
Meyer John C & Co.	241
Michel Plant & Bulb Co.	243
Millang Bros.	242
Mill G W.	249
Moffatt G J.	244
Moninger John C.	249
Moore Samuel T.	249
Moore Frank L.	249
Mullen Geo.	243
Meyer & Neuner	243
National Hot Water Heater Co.	252
Olson M.	243
Ouwerekerk P.	247
Patten & Co.	249
Peck & Sutherland.	243
Pierce & Coleman Co.	250
Pennock Saml T.	243
Phillips John T.	241
Phoenix Nursery Co.	248
Peterson A N.	249
Pierston F R Co.	244
Pilcher & Manda.	246
Pommet Chas.	243
Pynaert Edw.	246
Randall A L.	249
Reading Nursery Th.	247
Reek John.	245
Reed & Keller	249
Reimschneider Ernst.	245
Roberts D H.	251
Rochester Nurseries.	245
Rogers Nurseries.	245
Rolker A & Sons.	244
Russell J J.	246
Salzer Seed Co.	246
Sander & Co.	244
Schmidt F W G & Co.	244
Schofield D C & Co.	249
Seibin Jacob.	249
Schuster J Henry.	248
Seidley John A.	249
Sears F F.	244
Sheridan W F.	243
Sherwood Hall Nur.	246
Siebert & Wadley.	246
Stipple Doppel & Co.	249
Situations, wants.	252
Smith C. A. Floral Co.	245
Smith Nathan & Son.	241
Spradling Thos.	249
Starr Chas F.	241
Stecker Litho Co.	246
Stebby S O.	249
Sunderbruch H U.	243
Swayne Edw.	241
Tesmer Julius & Co.	241
Tricker Wm.	245
Vaughan J C.	245
Walker Wm.	245
Weathered Thos W.	252
Weeber & Don.	244
Weich Bros.	245
Whitall Pot Co.	250
Whitcomb Geo B.	241
Wight W P.	251
Wilks S Mfg Co.	251
Winchester Flower Ex.	244
Wolf J. Mfg Co.	252
Wood Bros.	249
Young M & Co.	249
Young Bros.	243

EVANSVILLE, IND.—At the Tri-State Fair, Wm. Blackman secured first prize for original design, the article in question being an electric car five feet in length, composed of roses and other flowers.

LANSING, MICH.—At the recent Michigan State Fair held here, C. S. Fitzsimmons, of Riverside Greenhouses, received nine firsts, and nine seconds, including firsts on cut roses, carnations and greenhouse plants.

DENVER, COL.—Among prize takers in the floral section of the horticultural fair Mrs. R. Mauff of the Capitol Hill Greenhouse received a large number of awards, both for plants and cut flowers. Others receiving prizes were the South Denver Floral Co., E. Glauber, C. Webb, and W. W. Wilmore.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention American Florist.

Greenhouse Pipe and Fittings



Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

THE SPENCE HEATER

HOT WATER

FOR HEATING

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER

For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved
RIDER HOT-AIR
OR
ERICSSON PUMPING ENGINE

(Catalogue with full particulars sent on application.)
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.



THE AMERICAN FLORIST



America is 'the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas.'

Vol. VIII.

CHICAGO AND NEW YORK, OCTOBER 20, 1892.

No. 229

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1895 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Carnations—Lifting	253
—Seasonable hints	253
—Our telephone	254
—The carnation show	254
Group of nymphs (with illus)	255
Chrysanthemum held at New York	255
Roses—Disbudding	256
—Remontant roses	256
Oil in greenhouse heating	256
Columbian Exposition	256
The fraternal spirit	256
Flowers for personal wear (with illus)	257
The forcing bulb industry	257
Philadelphia	258
Boston	258
Baltimore	258
Ceranium cuttings (illus)	259
New York	259
Buffalo	259
Chicago	259
Toronto	259
St. Louis	260
Lincoln Park, Chicago	260
Dairy Building, World's Fair (illus)	261
Our telephone	261
Cypripedium Constablicum	262
Worcester, Mass	263
Chrysanthemum shows	264
Catalogues received	264
The seed trade	266
Unpleasant features in horticulture	266
News notes	266
Spring bulbs	266
Patents recently granted	268
Exhibition notes	270
The florists' ice box	270
The Florists' Protective Association	272
A new insect enemy	272
Foreign notes	274



Lifting Carnations.

This season we made a careful test of lifting carnations, wet and dry, with balls of earth and without balls. Our soil is a sandy loam, rather porous, and difficult to secure good balls of earth on carnation plants at all times. Those plants which were lifted perfectly dry, the earth carefully shaken from the roots, and the plants packed closely in flats lined with damp sphagnum and carried immediately to the house and benched have proved the least checked so far, and are now growing, budding and blooming almost normally. Where we lifted in wet weather with the soil wet or damp, carefully preserving the balls, the plants received the most severe check and the young buds were generally blasted. Our experiments this year convince us that lifting in dry weather without balls is the best plan for our locality. Wm. Swayne, of Kennett Square, Pa., who has made the same experiments this season, writes us that he had results identical with ours, while on the contrary, Mr. Lonsdale, of Chestnut Hill, Pa., who tried lifting without balls last season, condemns the no-ball system severely for his locality.

I must say, however, that I do not believe in field-grown carnation plants, nor in lifting carnations in the fall. Just why a rose or chrysanthemum should be injured by lifting and checking its growth and a carnation not injured (even benefited, some claim), I can not comprehend, nor do I believe in the practice, and just as soon as our greenhouse plant can be arranged to suit the other culture we are going to try growing carnations as roses and chrysanthemums are grown, manuring and disbudding them as well.

Both raised benches and tile drained solid beds will be used, but I am of the opinion that solid beds not more than four feet wide, with six inches of soil under which thorough drainage is laid, will prove the best. Raised benches will be constructed with slatted bottoms, over which two inches of sphagnum will be laid, and five inches of soil upon this. Young plants from February to May propagation will be planted in June and grown through to the following June. A reserve of young plants will be carried on in 3 and 4-inch pots to refill any vacancies that may occur. I do not believe that this system will entail much extra labor and I further believe that we shall

have a more uniform crop of longer stemmed, larger and better colored flow-flowers and less bursting of calyxes.
East Moriches, N. Y. C. W. WARD.

Seasonable Hints.

A few weeks after the carnations are housed a fine crop of weeds will most likely make their appearance and they should have attention at once. It is best not to let them get too large, else hand picking will be necessary, which is a tedious process. Besides, a weedy bench looks slovenly, and the weeds rob the plants of a great deal of plant food. A small claw rake with a short handle may be used in hoeing, but if the ground is loose the hands will be found to be the quickest and best. The young rootlets have not yet grown very long, so that the stirring may be done deeper early than it should be later in the season, when the fine white rootlets may even be seen on the surface and these should not be disturbed. Consequently we deem it of great importance not to hoe the benches deeply during the winter, but simply rub the hand over the ground and remove such weeds as may survive this treatment.

We would prefer the wire netting already referred to should not be used until after the first hoeing, but plants that really need staking should be so treated as soon as possible. In using the netting (or chicken wire) we find it more handy to cut the same in lengths half the width of the bench. They are then much easier to place beneath the plants or to remove when necessary. The netting should not approach within two or three inches of the edge of the bench, otherwise it will be liable to be caught by the clothes and pulled out. To keep the stems from falling over the alley running from the apex of one section of netting to the other along the walks; but there will not be much trouble in this direction in dwarf or stiff growing kinds. Another use of the chicken wire is to keep the buds off the glass on low benches, where the frost would destroy many flowers. The netting of suitable width is strung under the sash bars and fastened to them with U shaped carpet backs. It is more convenient to do this before planting the pinks.

Keep the houses thoroughly clean; weeds or litter of any kind should not be allowed to accumulate on the walks or under the benches, as such materials are excellent retreats for snails, sow bugs and other vermin. Flues, water and steam pipes should be brushed free from dust preparatory to starting the fires. A very little dirt will stop a good deal of radiation. Of course the heating apparatus of whatever kind has been put in good working condition long before this, ready for any emergency. Fire heat will very likely not be required before the first of November, and probably not till the

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

15th or later. The houses should be kept cool until the plants have a firm hold of the soil, but of course should not be allowed to fail to the freezing point.

Avondale, Pa. W. R. SHELMIER.

Our Telephone.

"Hello, central, connect us with Kennett Square, Penna. That's right, now give us Wm. Swayne, please. Hello, Mr. Swayne, is that you? What is the news down in Chester county? Have the carnation men got their houses all planted yet?" "Yes, we are all through; some of us were pretty late, but the weather has favored us greatly. However, we are in no great hurry; don't care to have many blooms before December."

"How did the plants grow in the field this season?" "Not quite as large as usual, I should say, but they are all healthy looking and very little indication of disease anywhere. For my part I prefer to fill my houses with small plants close together rather than with large plants farther apart. Why? Well, I think we get more and better blooms. At least that's my opinion this year. I can't say how I might talk if my plants happened to belarge. But I have planted my Lamborns only six inches apart and I look for a good crop."

"You still stand by Lamborn apparently." "Yes, it still goes, Boston to the contrary notwithstanding. I won't go back on Lamborn yet. McGowan is apparently gaining ground here. It is very productive. The principal fault I find with it is that the blooms are too small. But it has not had a fair test. We've been too busy taking cuttings off it. You can not expect either quantity or quality in carnation blooms when you are constantly taking cuttings from the plant. I have adopted a new idea. I fill a house with last year's plants, topped back, for the express purpose of getting cuttings. I believe we shall yet find the plan worthy of general adoption."

"What other whites besides Lamborn and McGowan are you growing?" "Up to last year Swayne was the most profitable one we grew, but last year it didn't do as well. I think that in Wood Bros.' Puritan we shall find as to growth and flowers all that can be desired in a white carnation."

"Have you anything new in pink carnations?" "For a deep pink color we think that Ed. Swayne's seedling, Thos. Cartledge, will prove to be a standard variety. But Pennock, you know, has half the stock of the far-famed Grace Battles. Why don't you ring him up? I think he would be glad to talk with you."

"Thank you, we'll try him. Hello, there, C. J. Pennock, can you give us a few minutes of your time?" "Certainly. To tell the truth, talking is about all I am able to do, as I played in a ball game yesterday afternoon and am so stiff this morning that I can scarcely move."

"What can you tell us about the new pink carnation Grace Battles?" "Nothing, except that it is in splendid condition and that Mr. Lonsdale and myself are to send it out next March."

"Will it beat the Edna Craig?" "Wait and see. I've nothing to say."

"What other new varieties are you agreeably impressed with?" "Well, I am very hopeful regarding Hunt's Nancy Hanks. It is Wilder color and a good one. It ought to go with such a name. I also like Thos. Cartledge, and we are all counting on Daybreak this year. Angelus we think will also make its mark. It is early, very productive and has a

long and stiff stem. Puritan and Pearl are what I am running on in the newer varieties for whites this season. Creighton's two Coronets, Peach blow Coronet and Crimson Coronet, are both exceedingly promising and showing up fine. The latter is, so far as I can judge, the best of all the dark crimson. It is strong and vigorous and very few died in the field. Ferd. Mangold has not proved very satisfactory herabouts."

"How is Wilder with you this year?" "It is looking very fine. I take cuttings only from plants where the blooms are solid colors with no mottling. I believe it pays to select them carefully. By following this plan I get perfect flowers right along except in the very short days in winter when they are apt to get a little off color."

"What are you doing in seedlings?" "Oh, I am at it all the time. This hybridizing is interesting work I tell you, now, even if there isn't any money in it. I've got all kinds of crosses. I find Caesar to be of the greatest value as a breeder. Its qualities make it almost indispensable for this purpose. But that is another story and I may tell the readers of the *FLORIST* the results of some of my investigations in this line later on."

The Carnation Belt.

Why they call it the "belt" is not yet quite fully explained. But that it is the place to go to if you wish to find out anything about carnations up to date cannot be denied. It is also the home of Quakers, and as a breeding ground for prohibition has few equals. It is located away down in the southeast corner of Pennsylvania and you get there by a 33 mile ride from Philadelphia in a train which runs occasionally.

You are not there long before the restful influence of the surroundings begins to have its effect upon you; you realize how well mated are this lovely Kennett Valley and its peaceful inhabitants, and before you know it almost you are ready to agree with Josh Ladley that "Kennett Valley is about as near heaven as one can get; can't see how people can keep away," and you find yourself almost wishing that you too were a Quaker and could spend the rest of your days right here.

Notwithstanding their pastoral surroundings you will soon observe, however, that the inhabitants are just as wide awake and ready for business as are those in the bustling city. Just note Ed. Swayne's expression as he unconcernedly enquires of a neighbor whether he has any Angelus or Buttercup out in the field yet. To fully appreciate it you must get on the off side where you can catch "the other eye."

It is related of the editor of the local paper that on one occasion his business enterprise led him to print an obituary notice of a neighbor whose decease was momentarily expected, but who persisted in living along until the paper was all printed and ready for delivery, and then died just in the nick of time. "I knew he wouldn't go back on us," said the editor.

There are, however, two things for which the Kennett people will at any time drop all thought of business. One is a game of base ball; they will close up their stores and turn out *en masse* to witness it. The other is—well, it can best be illustrated by the performance of a certain young man who was at work one morning transplanting carnations from the field, and who upon seeing his best girl approaching in the distance dropped everything and started, leaving his coat

lying in the field and forgetting entirely to put air on the houses. Further than this deponent saith not.

From the carnation belt have proceeded a large proportion of the popular and valuable varieties of to-day. Most notable of all, the Buttercup, which was raised by the pioneer Chester County carnation grower, the late Chas. T. Starr, and which has yet to be beaten as a yellow. Other introductions by Mr. Starr were Chester Pride, Lady Emma, Christmas, Pomona, Constancy, J. K. Freeman and Golden Gate.

W. R. Shelmire has also originated many fine seedlings, such as Angelus, Nellie Bly, Caesar, Gen'l Custer and Dorothy, also Brutus, a scarlet sport from Caesar, Edelweiss, a white sport from Chester Pride and Mrs. H. M. Stanley, a beautiful salmon orange sport from Buttercup, which is to be sent out in '93. Chambers Bros., although indulging but lightly in seedling raising, are to be credited with two good ones, Grace Darling and Pearl. The latter was sent out by C. J. Pennock last year and is a very large and fine white flower. Chambers Bros. are now cherishing a promising white one which bears an enormous flower.

Mr. Pennock will doubtless be heard from in the seedling line later, for he has 500 new ones, the result of careful hybridizing, which will bloom this winter.

Wm. Swayne's record on seedlings includes L. L. Lamborn, Wm. Swayne, Pride of Kennett and others. Edward Swayne sent out Aurora and Thos. Cartledge last year, both of the highest quality. He will introduce Ophelia in '93 and has several other promising ones. Ophelia is a fine grower, stocky at the base, with strong stems, and flowers similar in color to Grace Darling.

Isaac Larkin's best have been Morning Ray, Lady Rachel and Wanderer. Jos. Renard has a lovely sport from J. J. Harrison, somewhat resembling Nellie Lewis, but softer and purer in color than that variety.

Everywhere in this neighborhood Buttercup seems to be the great favorite. The demand for this variety is very heavy and the price of rooted cuttings will be higher this season. Grace Wilder appears to have renewed her youth; finer plants could not be desired than the Wilders this season. Silver Spray, Lamborn and McGowan are the favorite whites. McGowan especially appears to be growing in favor. Mrs. Fisher is not grown much indoors, as it is apt in this locality to make a good many flowers that do not open well, and the individual blooms as grown here are not equal to Lamborn or McGowan, but it is pronounced by Edward Swayne to be the white for outdoors, where it bears very heavily. Of the newer varieties, Thos. Cartledge, Aurora, Angelus and Daybreak seem to be the most popular.

There is a general complaint that Anna Webb transplants very poorly. Speaking of transplanting, Mr. Swayne asserts that varieties with heavy foliage are generally much harder to transplant than those of lighter growth.

It is not generally known how narrow an escape Buttercup had in its infancy. It seems that Mr. Starr was carrying a lot of seedlings from one house to another when one of the little plants accidentally dropped on the ground. It was found there some time afterwards by a passer, wilted and almost beyond recovery, but Mr. Starr planted it and cared for it and finally saved it. When it bloomed it was the Buttercup.



GROUP OF NYMPHÆAS.

N. Zanzibarensis azurea.
N. Zanzibarensis.

N. Mexicana.
N. marliacea rosea.

N. marliacea chromatella.
N. Devonienensis.

Group of Nymphaeas.

The accompanying illustration is from a group pictured at Lincoln Park, Chicago, where the display of aquatic plants is unusually attractive. The ponds are tastefully bordered with foliage and flowering plants, and the nymphaeas alone form an exhibition, extending through many varieties. Especially interesting is the *Marliacea* strain. These hybrids prove a grand success here and the rounded shell-like petals and exquisite tints make them greatly admired. *N. Marliacea rosea* certainly exceeds *N. odorata rosea*, both in shape and color, and *N. Marliacea chromatella* is the most charming of yellows. *N. Mexicana* is an attractive pale yellow. Of the grand *Devonienensis* with its deep rose red petals nothing need be said; its bold form is well expressed in the engraving. *Zanzibarensis* and its bolder form, *Zanzibarensis azurea*, are also well known among the showy night-blooming nymphaeas.

The value of nymphaeas as decorative plants can hardly be too strongly insisted upon, and since the taste for them is certainly in the ascendant it is necessary for the trade to keep in line. Most of the nymphaeas can be grown in comparatively contracted quarters, the *Marliacea* group especially having a tendency to keep in one mass, instead of spreading over the surface of the water.

The culture of these aquatics is very fully covered in the *FLORIST* for November 5, 1891, page 280.

DO YOU WANT an alphabetical list of carnations in commerce in America with

date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

The Coming Chrysanthemum Show at New York.

The Madison Square Garden chrysanthemum show will undoubtedly be the most magnificent floral exhibition ever seen on this continent. Last year's experience is being made good use of by the committee in charge and everything is progressing smoothly and satisfactorily. Arrangements have been made so that all exhibitors in each class will be provided with appropriate vases of uniform pattern, so that no undue advantage will be had by any one on this account. Untidy exhibits of any kind, especially unwashed flower pots, will positively be refused admission, and the rules regarding the time exhibits must be staged for judging will be enforced to the letter.

With the exception of one small section all cut blooms are to be shown in vases, on long stems. In addition to the regular premiums amounting to \$6,500 the following special silver cups are offered:

By Young Bros. for the best 200 chrysanthemum blooms in 40 varieties, 5 of each variety. Silver cup, value \$200. (All those not yet in commerce excluded).

By the Garden and Forest Publishing Co. for the best vase of cut chrysanthemums containing 6 blooms of any one variety. Silver cup, \$50.

By Mrs. W. Bayard Cutting for the best vase of 50 cut blooms of chrysanthemums, any variety. Silver cup, \$50.

By Peter Henderson & Co. for the best vase of yellow chrysanthemums, not less than 25 blooms, on long stems, of one variety. Silver cup, \$50.

By John Eyerman, Esq., F. G. S. A., for the best 6 blooms pink other than pom-pom. Silver cup, \$35.

By Mr. Ernst Asmus for the best vase of 200 blooms of Papa Gontier roses, open to growers only, exhibitors to furnish their own vases. Silver cup, \$50.

By the F. R. Pierson Co. for a vase of cut flowers of the best and most promising forcing rose of recent introduction, never before exhibited at a New York show. Silver cup, \$50.

By Mr. John H. Taylor for the best 50 new pink roses to be shown in a vase furnished by the exhibitor, on long stems. Silver cup, \$50.

By Mrs. W. C. Whitney for best new seedling rose of American origin, not less than 12 blooms, not exhibited previous to 1892. Silver cup, \$25.

By Mrs. Chas. Lanier for the best new seedling rose of European origin, not less than 12 blooms, not exhibited previous to 1892. Silver cup, \$25.

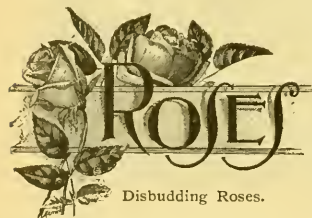
By Madison Square Garden Co. for best 25 carnation flowers, any color, coming nearest to the ideal of what a carnation should be, as described by Mr. John Thorpe in the January 8th issue of the *AMERICAN FLORIST* for 1891, page 308. No premiums will be awarded unless the flowers are over 3 inches in diameter. Silver cup, \$25.

By Mrs. Henry Clews for best seedling carnation, not less than 12 blooms. Silver cup, \$25.

By Weeber & Don for the best dish of 25 mushrooms. Silver cup, \$25.

In addition to the cups special money prizes are offered by Mrs. Chas. Lanier for best collection of roses, by Dailledouze Bros. for best 6 blooms of any variety of chrysanthemum introduced in the spring of 1892, by Mrs. J. Hood-Wright for best 12 varieties chrysanthemums in pots, and for best 12 varieties on long stems, by Mr. John H. Taylor for the best individual chrysanthemum flower, to be shown with stem 18 inches long, a silver medal, value \$10, and by Mr. J. J. Arnot Penman to the exhibitor taking the largest number of first premiums and cups a copy of the Dictionary of Gardening. The special rose premiums are to be competed for on Wednesday, November 2; the Young prize, the Taylor prize for single bloom and the carnation prizes on Thursday, November 3.

Seedling chrysanthemums will be shown on Friday, November 4, and dinner table decorations on Saturday, November 5. Expert judges from all parts of the country have been invited to award the premiums.



Disbudding Roses.

I would like to receive some information through the FLORIST concerning the disbudding of Bride and C. Mermet. After these roses are started well in their benches or place to crop for market, is it a benefit to keep disbudding from, say middle of June until now, in order to get better flowers for future use, or would it be best to let the buds partially develop, then knife them down into strong and harder wood for a stronger and better result, though possibly with a crop less in quantity, but what in my judgment would be far superior in quality? I have seen this process of disbudding carried on in a house with every convenience, and where soil and manure was suitable, so that none could be better for roses, yet the result is so far very unsatisfactory, and I attribute it to the fact that the grower lets his bushes develop their buds almost to bursting their calyx, then nipping them off. The roses break just at the extremity again with the result of weak thin shoots with a poor insignificant rose or else with blind wood. I have noticed this with several growers and have seen laying under their plants in the morning these buds well on ingrowth nipped, and not one has so far been able to produce a good rose all through the year. While I do not advocate any severe measures to these roses with the knife, yet I think the other is an extreme far more injurious both to the rose and grower and if these questions are worth airing I should be glad to receive any remarks they may call forth, remaining yours truly, ENQUIRER.

Remontant Roses.

In Mr. John N. May's article concerning hybrid remontants in your issue of October 6 he there speaks of varieties of roses so dissimilar in character that it

leaves me in doubt as to what a remontant rose really is. Are all climbing roses remontants only? The word is French, from remonter, signifying to go up or wind up or remount. If I am correct in this, can Magna Charta, Anna de Diesbach and Ulrich Brunner be classed among the remontants? I have seen both Magna Charta and Anna de Diesbach as standard roses, blooming with wonderful profusion and perfect in every form outdoors and also from the bottom budding, but they never struck me as climbers. Is not the latter sometimes called Gloire de Paris? [Yes.]

Should this be considered worthy a reply, not only myself, but many others, I know, would like to have a light thrown upon this subject, especially upon what constitutes a hybrid remontant rose, from one that is remontant originally.

AN ENQUIRER.

Oil in Greenhouse Heating.

A recent visit to the Breitmeyer place at Mt. Clemens showed the efficiency of this fuel. The houses are built in four sections and are heated entirely by steam. Oil is used for fuel and by it the firm has effected an annual saving of \$800. Being conveniently near the track of the Grand Trunk railroad, they have erected an oil tank about 400 feet from the greenhouses and connected it with a switch, so all they have to do after purchasing a tank of oil is to connect it with their own and it is emptied in very short order. Being so out of the way, there is absolutely no danger. The tank is about 20 feet above the boilers, so the gentle grade towards the greenhouses gives all the force required. There is no stoking, no ashes and no trouble, hence a great saving in every direction, time, trouble, labor and last, but not least, expense. About 200 barrels a year is their consumption, though the tank will hold 600.

Irrigation is also carried out extensively here for the growing of carnations, violets and other winter flowering plants, also for annuals, etc., for summer use. The tank placed at the highest elevation and filled by a small steam pump has a capacity for 25,000 barrels and in time of drought is indispensable.

Breitmeyer & Sons make a specialty of violets, and they do them well if the following record counts for anything: 172,000 blooms by actual count for a house 160x14, solid benches. "We grow more than half in pots during the summer and find that when planted out they flower earlier and give better average to a plant than those from open ground." When your correspondent called the houses were looking clean and the roses free from all diseases that roses are heir to; the carnations just planted were good and stocky, though from the heavy spring rains over 5,000 plants were lost. *Stephanotis floribunda* as grown here has proved very profitable; it is grown in the rose house over the walks and was a perfect picture at the time of calling. *Grevillea robusta* is planted out at the ends of three houses and is used as a substitute for fern and as foliage when "green stuff" is scarce; they also use an acacia the variety of which I was unable to determine. Mr. Breitmeyer is a great advocate of solid benches for roses, and for everything, in fact, and a record of the "work" of each house is strictly kept. Three houses for roses 100x22 are in course of erection and three 80x22 for hothouse grapes. Mr. Breitmeyer has beside the last a very profitable hobby in the ten acres of hardy grapes which he cultivates for

making wine, and, if your correspondent is any judge, it is equal to any imported vintage.

Besides the above this firm has over 20,000 feet of glass within the city limits of Detroit, where most of the decorative plants and the bulb stuff is grown, and I cannot close till I have mentioned the store presided over by jovial "Phil" Breitmeyer, a plate glass front having been recently added to the conservatory attached and newly filled with the choice foliage plants and palms not often met in commercial establishments. B.

Columbian Exposition.

At the present time the exposition grounds are in a condition of general upheaval; so many improvements are to be made in the last few days of preparation before the dedicatory ceremonies. Even the interior of the Horticultural Building is not free from the laying of pipe lines, preparations being made to bring Waukesha water into the hall.

Large consignments of plants are still being received; a quantity of large specimens came from Massachusetts and another superb lot from Pennsylvania, containing some of the finest plants that have yet reached the department. A fine *Encephalartus Lehmanni* came with the lot from Allegheny City; it is a noticeable variety with very glaucous leaves.

Some interesting plants were received from Richmond, Ind., among them quite a large plant of *Beaucarnea glauca*, one of a curious Mexican genus of liliaceae.

The Australian ferns (which must be credited to New South Wales, not New Zealand) are flourishing finely. The north side of the horticultural building is becoming well filled with fine specimen plants now; among them are some fine plants of *Ficus indica* (the banyan), *F. nitida* and *F. elastica*. Some interesting musas were recently received from New Orleans, among them some nice plants of *M. Sumatrana*, which is very handsome with slender stems crowned with showy leaves, green blotched with warm red-brown. The under side of the leaf is the same color as the blotches. *Musa Martini*, of which a good many plants have been raised from seed, shows all the qualities of a very useful decorative plant. It is clean and handsome, a very rapid grower and thoroughly free from insects.

The early chrysanthemums are coming into bloom nicely, showing all Mr. Thorpe's old-time skill. Quite a number of seedling varieties were noted among them. Some of these plants will be used in the decorations this week, but the main effect will be supplied by *salsvia*, *marigolds*, *cosmos*, *coleus* and *celosias*. *Celosia pyramidalis* var. *Thompsonii* is in glorious condition and highly ornamental. The lines of rich color provided by these plants will be thoroughly effective. Outside the greatest show is provided by the *cosmos*, which is blooming very abundantly. Owing to the prolonged warm weather plants outside show little change in appearance as yet.

The Fraternal Spirit.

We have a little community of florists in our neighborhood who work so smoothly together and so much to our mutual advantage, that, as we have learned "Two of a trade can't agree" I have felt for some time a desire to present to the trade in general the thought that such a condition suggests.



FLAT HAND-BUNCH OF AMERICAN BEAUTY ROSES.

It has been for many years a business maxim, that "Competition is the life of trade."

As men grow wiser they will see that co-operation is the heart of trade. The first is founded on selfishness, the second on altruism. The signs of the times are so many finger-boards pointing toward co-operation. The syndicates and trusts, the profit-sharing experiments, the books like "Looking Backward," the nationalistic societies, are all practical workings out of the idea of the brotherhood of man. Man is naturally gregarious and works better in gangs. It somehow lends keenness to the mind, fibre to the will, and elasticity to the muscles. We are not entered in a race where each runs separately, but are chained, (whether we will it or not), to the car of a slowly moving humanity, and the speed will depend largely upon whether we pull together or apart. It has been said by someone, that, "In spite of all appearance to the contrary, the deepest thing in man is his love for his fellows." This does not appear upon the surface, but let some emergency arise, let man's life or woman's honor be put in peril, and how quick the response. The latent heroism springs forth a full-armed divinity, ready for any risk, any sacrifice.

If these things be true, let us try to keep abreast of the best thought and best feeling of the age, and endeavor to develop the fraternal spirit by thought and

by expression. The result will amply repay the effort. EDWD. SWAYNE.

Flowers for Personal Wear.

THE CORSAGE BOUQUET NOW OBSOLETE.

[In response to several queries as to the present mode of wearing corsage bouquets.]

The days of the big corsage bunch, pointing skyward from the wearer's shoulder, or forming a shield that concealed the waist and spread up across the chest, are now long past, and there is a great improvement in the prevailing taste. When asked for the present style in corsage bouquets a prominent Chicago florist said: "Why, we don't make corsage bunches now. Loose flowers are chosen for personal decoration; we send up a box of roses or chrysanthemums, or whatever it may be, and the lady pins a few in her hair or dress, as she desires."

This gives the prevailing idea, which points strongly to natural arrangement. For the street, one or two long stemmed roses or chrysanthemums, tucked into the gown or jacket, or a little bunch of violets, find great favor. For receptions, theatre and the like, a loose nosegay is carried in the hand, no flowers being worn otherwise. Our illustration gives the mode in this direction. These nosegays seem an outcome of the coaching bouquets, which were to be laid in the lap without crushing. They are flat on one side, rather long in shape, the beauty

of the well clothed stems being fully displayed. Bunches of similar make are used as German favors, being displayed on a screen, in baskets, or any other style the hostess may choose.

When chrysanthemums are in season, one or two of the "shock-headed witches of Japan," as Mr. Falconer describes them, big specimen blooms, are worn in natural style. The more costly show blooms are appreciated for this purpose. They are also made into the flat bunches for carrying, like the roses.

As far as varieties are concerned, Beauty, La France, Bride, Mermet and Cusin may be called essentially women's roses; either in single blooms or the bunches they are invariably favored. All the large hybrids are worn singly, though they are rather stiff for use in the small bunches. Meteor is another rose popular for personal decoration.

In the spring daffodils, tulips or Roman hyacinths are much favored for personal wear, the same style being followed as with the other flowers. In making flat bunches of Roman hyacinths we often see a little knot of violets at the place where the stems are tied together. Tulips and daffodils are not mixed with other flowers. These little informal bunches should never be tied with ribbon, that being reserved for the larger bouquets.

During last winter corsage bunches were still called for, being usually pinned, flowers upward, at the waist, but there is no doubt that the coming style is emphatically in the direction of the flat hand bunches. Occasionally there would be a demand for long sprays or garlands, to be draped across an evening bodice, but this style was never prevalent in Chicago. Garlands or coronets of natural flowers were sometimes called for, being used occasionally at weddings, but this was an unusual style, so can hardly be quoted as a regular fashion.

The Forcing Bulb Industry.

Although business friends to Mr. A. Rolker, we feel obliged to point out the incorrectness of his article in the AMERICAN FLORIST of July 21, on which only a few words are wanted, which we hope, Mr. Editor, you will be kind enough to admit to your columns.

The present high prices of Dutch bulbs are only occasioned by the increasing demands of American dealers, as by official statistics we can prove that the export of Dutch bulbs to America has been this year at least twice that of '78. And this is a very natural and sound consequence of things, we find. We are at a loss to understand how business people can in this matter charge it to the "greediness" of the Dutch bulb growers. Are not the markets all over the world subject to the rules of supply and demand? If there is an increasing demand for wheat, do not prices advance? We consider this too natural to give it further attention.

The Dutch bulb growers and exporters have often to buy tulips, etc., at higher prices here than we make ourselves in America. It is a fact that everybody is now growing for the American market and buyers going all over Holland to get best forcing varieties to provide for American wants. The result will be that within two, three, or at most, four years one will have forcing tulips for America at prices which will make it impossible to compete. We need not add that labor, manure, etc., are cheaper here than in America.

It is not our intention with these lines to keep enterprising men from growing

Dutch bulbs. Future only will confirm our opinions; we only wish to repudiate the blame of "greediness." Everyone who knows the simple Dutch bulb growers will know that never a grower got rich by growing bulbs; they only want in general to live happily by hard working and little comfort. There is no reason to be jealous of the small profit Holland has had the last few years by the high prices of tulips, a part of this money coming from America, a country which does not know what to do with its riches.

Holland.

DUTCH-THEO.

Philadelphia.

The past week has been warm and roses have rather a tired appearance, as one grower expressed it, but it will not remain this way much longer, as a cold wave is predicted.

A very few chrysanthemums are about at this date, 15th inst. These are like the early flakes of snow that fortell the storm coming, as according to all accounts the amount thrown on the market this season will be far ahead of any previous year. Growers of fine flowers report their plants in excellent condition and say the quality of the flowers will be superior to anything yet offered in a commercial way.

Business in the stores is picking up considerably and the season may now be declared open. Prices of flowers remain much the same, La France, Mermets, Brides and Albanys 3 to 4; Perles, Cusins, Niphets, Gontiers 2 to 3; Beauties, which have become quite plentiful, 15 to 20. Carnations have commenced to lengthen their stems and are otherwise improved and the retail dealers have ceased to apologize for them. Cosmos is still very abundant; 50 cents per 100 is about the price. Double violets are in and bring 40 cents a 100, but they are very poor. Valley sells for 6 and smilax for 20.

At Henry A. Dreer's nursery they have inaugurated a new system of growing plants into large specimens. The complete range of houses built last summer is now filled with palms and other fine foliage plants of good size, which are to become aristocrats of their kind. Nothing is to be sold from this block until next season, orders now being refused for sizes of plants sold out except those set apart. As the college boys would say, these plants belong to the class of '93, and will no doubt be greatly benefited by their collegiate course. There should certainly be a full house at the commencement.

Swainsona is the name of a plant Edwin Lonsdale has on trial and it will be well to watch it. It is a greenhouse shrub bearing white blossoms, which resembles sweet peas except that the individual flowers are smaller and borne in larger and more compact clusters or racemes which can be cut with quite a long stem. The branches of the plant are slender, yet it has an erect habit, is a strong grower and blooms with each new growth; it has a fragrance somewhat like the sweet pea.

The chrysanthemum souvenir, a copy of which is to be given to each visitor at the coming show, will be alone worth the price of admission. In addition to several articles on the golden flower and a list of all the popular varieties there will be short and interesting talks on orchids, roses and carnations by those who make these flowers a specialty. It will no doubt be the best work of the kind so far sent out by the society.

Several of the brethren are off this week on a trip to Chicago to attend the celebration in connection with the World's

Fair. They will no doubt have an interesting story to tell us on their return. Any news from Chief Thorpe's department is eagerly sought for and many of the trade look forward with a good deal of pleasure to the treat in store for them next summer.

Jacob Becker is mourning the loss of his oldest child, who died on the 14th inst., a very interesting little girl six years of age; membranous croup carried her off in a few hours.

A plant which will no doubt have a large sale as soon as its good qualities become known is *Clematis paniculata*. It resembles *flamula*, but is said to be better in every way; it is not of recent introduction, but a meritorious plant (of which there are a great many) that has remained for a long time in obscurity. It is one of the old things that will become new.

There was a great game of ten pins at the club Thursday night last. Two teams were selected whose averages made them about equal and as a consequence the result was in doubt until near the close of the match, when it was seen that Capt. Harris' team would carry off the honors. The deacon set a good pace for his men, the Schuylls, as did also George Craig, who captained his opponents, the Delawares. The score: Schuylls, 2,816; Delawares, 2,708. Anderson was top man with 531 in the three games. K.

Boston.

Boston has been experiencing a long spell of the most perfect autumn weather. *Salvias*, *dahlias*, *petunias*, *geraniums* and other garden flowers are still blooming in great profusion, although it is past the middle of October, and it is only in occasional exposed spots that the early frosts have left any mark yet. All this is very pleasant to look upon and an indefinite continuation of these conditions would be very acceptable to the general public. But to the florist most of its charm is lost, for as long as it continues customers will be scarce and prices will be low. Roses of all varieties are coming in freely. In color and general quality they are excellent, American Beauty excepted. Of that variety there are very few good specimens being received.

The chrysanthemums coming in are of finest quality, the best early chrysanthemums that have ever been put on the Boston market. The varieties most abundant so far are M. E. Nichols (October beauty), Mme. La Croix and l'Africaine (Geo. Gordon). A few Rohallions are shown, also a few Ivory, but the flowers are not fully developed and are rather flat on account of being cut too early. There are also a few of Thorpe's early pedigree set being received. The demand, however, seems light as yet and prices are not what they have been in previous years for early flowers. Reports from the chrysanthemum growers in this vicinity indicate that the stock is looking promising all round. There will be an abundance of good exhibition flowers and if all those who are talking of exhibiting should do so competition in Boston is going to be pretty close.

As indicating the extent to which florists' letters are being used nowadays, one wholesale dealer in this city reports sales of these goods amounting to \$1,854 in the past year.

The auction sale of plants at David Allan's on October 13 was a notable occasion. The quantity of choice and rare stock offered and Mr. Allan's popularity, as well as his reputation as a grower,

brought together probably the most distinguished company that ever congregated at an auction sale of plants in this section. The prices realized were generally fair and in some cases very good. The orchid fanciers found quite a magnet in the superb collection of dendrobiums, *Allanianum*, *Cooksonii*, *nobile nobiliss*, *Arnoldianum* and other rarities all finding ready buyers. The valuable lot of white lapagerias became the property of Pitcher & Manda. This firm was the largest buyer, Mr. Manda attending the sale in person. With characteristic generosity, Mr. Allan had provided a bounteous lunch, and nobody had a chance to be either hungry or thirsty. Auctioneer Hatch was in his best spirits and the occasion was a great success, not only as a sale, but as a social reunion. The veteran Louis Menand was there from Albany, looking not a day older than he looked five years ago.

Baltimore.

The event of the week was the ball given by the Elkridge Hunt in their new ball room at the club house, a short distance north of the city. Baltimore's "four hundred" was well represented, as was Philadelphia's, New York's and Boston's. Autumn leaves in great branches were freely used in the decoration, and in connection with the gaudy costume of the members of the club made a glow of color that harmonized perfectly with the dull yellow tint of the walls of the ball room, the whole being relieved by masses of plants in corners and to screen the musicians. Brackenridge & Co. had the job.

In reading a recent note on propagating *Ficus elastica* it seemed that, though the idea of washing off the thickened sap was good, it was decidedly more cumbersome and tedious than the plan adopted by our worthy president, Mr. Wm. Fraser, which is, to drop the cuttings, as made, into a tub of water, so that the sap is dissolved off as it flows and the clean cuttings are ready to insert into the sand of the propagating bed as soon as the job of making them is finished. If there be a king of propagators of this plant hereabouts Pres. Fraser is the man, unless a man can be found who never loses a cutting, for he comes very near that point.

There was the best turn out at the last club meeting that has been seen in the hall now occupied, all the seats were filled and it looked for a while as if some would have to stand, but all were accommodated at last. Mr. H. Bauer gave a short account of his recent trip to Germany. He thought private gardening is there far in advance of this country generally. He spoke in the highest terms of the palm garden at Frankfurt and that at Cologne, and praised some of the commercial places very highly, notably those about Erfurt.

The exhibition committee followed with a lengthy and complete report on everything connected with the coming show, by which we are encouraged to believe that we are to have the finest display ever witnessed in the city. Nothing seems to have been overlooked that could be foreseen and provided for.

The club gains in numbers at every meeting, and the number is growing to such proportions that it was thought necessary to appoint a member to take special charge of the business of making all acquainted with each other. Mr. Chas. M. Wagner was appointed.



GERANIUM CUTTINGS.

The committee on securing a permanent location reported, but not having completed satisfactory arrangements were continued.

For a wonder the question box was trifling, scarcely a single question of importance being found in the whole batch, probably owing to the lateness of the hour, the reports having taken up so much time that the boys were tired and wanted to go home.

Buds are plentiful and in very fair quality. Violets are appearing, but are small and scarce. Cosmos is about the only drug, it is going slowly at 50 cents per 100. A very few chrysanthemums are about.

In spite of the drenching rain of a few weeks ago the ground is very dry and so hard that nurserymen can do nothing at all yet; they say that even the heavy rain we had did not go to a sufficient depth to enable them to lift trees or shrubs.

MACK.

Geranium Cuttings.

The illustration is from a photograph taken a few weeks ago of a bunch of geranium cuttings in the greenhouses at Lincoln Park, Chicago, with the object of showing how the cuttings are trimmed before being placed in the sand. An article describing in detail the methods pursued here in propagating geraniums appeared on page 1064 of the *Florist* for June 30, 1892.

New York.

Much interest is being manifested in the coming chrysanthemum show, and between this and the preliminaries for the horticultural department of the World's Fair there is likely to be abundant material to keep the boys interested. The club meeting on October 10 was an evidence of this. It is not often that so many solid men of the florist business get together and it is a good omen for the club that its meetings call out such a representation. The club room is, or will be within a few days, an assured fact and when the great army of expected strangers from north, south, east and west appears at the chrysanthemum show the club

room is expected to "fill a long felt want."

At the club meeting Mr. C. H. Allen passed round a nice looking bloom of yellow chrysanthemum to see if any one could name it. The experts all gave it up, no one knew it. Much amusement was then created by Mr. Allen's statement that the variety had been grown for the past 40 years on the east end of Long Island and was a very common plant in the gardens there. It ought to be valuable, as it is of good form and color and is fully ten days earlier than *Gloriosum*.

Cut flower trade continues dull, with an overstock of roses, all varieties. Growers and dealers are all praying for colder weather.

Buffalo.

The dry bulb season is with us. Palmer & Son have had for the past ten days one of the best window displays of bulbs ever seen here; at the same time they have enough left at Lancaster to force for winter flowering to still entitle them to be called the biggest bulb growers in western New York. Rebstock informed me to-day that he was forcing 60,000 bulbs the coming season and Scott is right up in front in numbers.

But bulb talk is nowhere compared with mums at this time of year. The enthusiasm for the coming show is fast reaching the boiling point. The quality of plants to be exhibited next month will be almost, if not quite, metropolitan. Pickleman, Rebstock and Scott have each several houses filled with very fine plants on the benches for cutting from and also from the single stem up to the standard, and they are all seriously wondering whether they can possibly beat out the Niagara conservatories with V. Hamman at the helm. It will be a fight to the finish all round. There is also any amount of enthusiasm and "preparation" going on with a view to taking the silver cups for dracenas and the stove and greenhouse plant classes, but all these sink into insignificance when we come to the guessing of who will take the first prizes in the open cut "mum" classes. This in Buffalo is particularly interesting, as there is considerable rivalry between store and green-

house men. The store men always have the advantage, as they send to the east and the west for stock on such an occasion, but the Buffalo grower can not persuade himself that any better flowers are to be grown than his own, therefore he gets left. But on one point they agree and that is that some of the big chrysanthemum men will be more than welcome at the coming show.

The retail business for October has been good. Weddings numerous and although not large each one has helped to keep business lively. For the coming week there are some large ones, one of the most elaborate Scott is already preparing for.

Flowers are fairly plentiful and of good quality, especially roses.

Among the growers Scott has about completed three very fine greenhouses 100x20, with all modern improvements, even to "buted glass," and do not tell him that it is not an improvement. One is already filled with chrysanthemum plants, any one of which would take a prize outside of Buffalo.

Rebstock has everything housed and in good shape; he is at present the only one in Buffalo cutting good American Beauties. Lizzie McGowan at last seems to be attracting the attention of the Buffalo florist. Look out, old Silver Spray, and do your best; you have plenty of backing.

Mr. Wm. Scott's wife is dangerously sick. M.

Chicago.

At the last meeting of the Florist Club the recommendation of the banquet committee that the affair be postponed was adopted. All the florists are loaded with orders for dedication week and hardly one can be found who can possibly make time to take part in any festivities.

The following resolution, that was adopted by a unanimous vote, explains itself:

WHEREAS this club has learned that an order has been issued to abolish the title of Chief of the Bureau of Floriculture of the World's Columbian Exposition and substitute therefor that of Superintendent of the Bureau of Floriculture, and

WHEREAS this club feels that such change, at this time, can be construed only as an intentional slight offered not only to one of the ablest and most distinguished members of the profession, but to the floriculturists of the country as well, therefore be it

Resolved, that this club hereby expresses its emphatic disapproval of such action and urges the wisdom of a reconsideration of the action taken, as a measure essential to the success of the Bureau of Floriculture, and indeed that of Horticulture as well.

Facts were brought to the attention of the club that convinced the members that the issuing of the order was due to spite work, and though no reduction of salary followed the reduction in title, the club felt that it should at once express its emphatic disapproval of the spirit displayed in the issuing of the order. And it was believed that by prompt action pressure could be brought to bear that might result in a withdrawal of the order.

The club decided to offer special premiums for mantel decorations at the coming exhibition of the Hort. Society, and appropriated the sum of \$155 to be offered in three premiums of \$75, \$50 and \$30.

The complete premium list for the exhibition will soon be issued by the Hort. Society. It will include a number of specials not noted in the advance list.

The society has decided to sell to the highest bidder the privilege of maintaining a booth for the sale of cut flowers in the hall during the exhibition. Particulars may be had from the secretary, Mr. W. C. Egan, 620 Dearborn avenue.

Prices remain much the same up to time

of writing, but as soon as the Columbian festivities begin an increase is expected. Flowers are quite plentiful. Roses are extremely good, as a rule, Albays and Perles especially fine. Gontiers are fine in color and all the roses are increasing in size. Violets are beginning to be plentiful.

Owing to the continued mild weather outdoor stuff hangs on amazingly. Some good dahlias are still to be seen; cosmos is extremely plentiful. Some fine sweet peas are seen; some of the growers had made preparation for frost, in the way of protecting cloth, but so far it has been quite unnecessary.

Carnations continue to improve, being larger and longer stemmed. Chrysanthemums are coming in more plentifully, but they are not as a rule very good. Some of the finest in the city are grown by Mr. Rudd of Mount Greenwood, but they do not appear in the open market, being disposed of directly to some Chicago retailers. The growers in and around Chicago cannot meet the demand for yellow chrysanthemums this week and a large quantity is being brought in from outside points.

C. Rayner of Anchorage, Ky., was a recent visitor to Chicago.

Toronto.

There is an agitation afoot just now to have the city parks run by a commission instead of by the corporation and there is no doubt but that it would be an improvement on the present state of things; there can be no continued policy now; this year's council may be inclined to push parks and gardens ahead and next year's council might let things slide and allow a great deal of what its predecessor had done to be undone; the commission would be allowed to tax to the extent of half a mill on the dollar. It is proposed that the commission consist of six gentlemen to be nominated by the mayor and elected by the city council, two to drop out and two to be elected every year.

In all probability there will be a florists' contest at the chrysanthemum show, making up baskets and bouquets, each one with a uniform quantity of flowers; if this can be carried out it will be a drawing card. One of the show days falls on Thanksgiving day, when a big crowd is a certainty. A good band has been engaged for every evening and afternoon of Thanksgiving day. No club should omit to engage a band for their show, at least in the evening; it will pay them twice over to do so.

Flower beds are a thing of the past for this year, though the weather just now is simply beautiful; probably we are getting Indian summer a little ahead of time. The leaves are falling off the maples, but horse chestnuts and some other trees are quite green yet.

A few chrysanthemums are to be seen in the store windows, but no quantity is coming in yet.

Mr. Jas. Forsyth, instructor of the Agricultural College, Guelph, Mr. A. Goodall, gardener of the Hamilton Asylum, and Mr. Rennie, ditto of the London ditto and president of the Florists' Club there, were in town this week picking out some of the surplus stock of plants at the Central prison.

St. Louis.

Trade rather dull; weather still very dry. Florists are all busy preparing for frost, which will probably visit the city this month.

Mr. Fihmore has been confined to his bed for about a week.

The St. Louis Florist Club at its regular monthly meeting appointed Mr. Waldbart a committee of one on arrangement at the chrysanthemum show. Messrs. Krening, Jordan and Waldbart were appointed on the inspection committee.

Mr. Schray has just completed a new house 20x82 feet. It is well built of wood and iron and glazed with 1x24 glass.

Houses for forcing vegetables have been conspicuous in this city principally by their absence. Two of our enterprising gardeners have just completed forcing houses—Mr. J. Wisbald, a range 38x75 feet, and Mr. Fred Moellenhoff, a house 25x120 feet. They will grow radishes and lettuce.

J. C. DUFFEY.

Lincoln Park, Chicago.

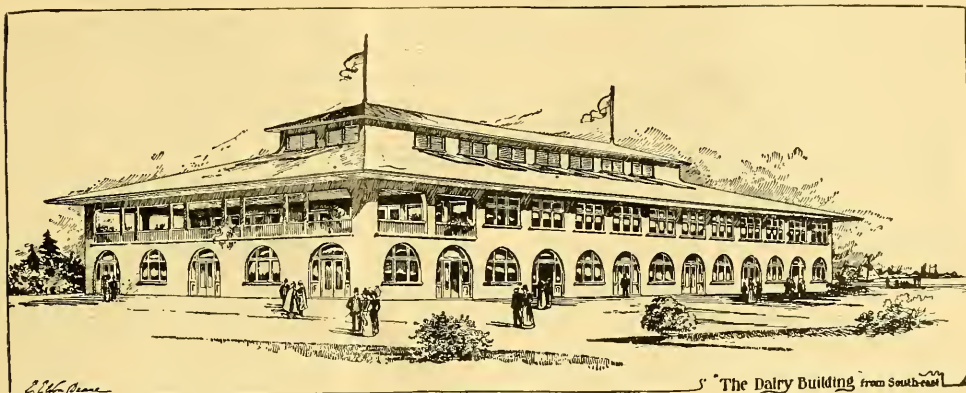
The report of improvements at Lincoln Park during the past three years, is presented to the park commissioners by Supt. Pettigrew. A few extracts from it will give our readers some idea of the progress made. The park was almost a desert to begin with; as Mr. Pettigrew says: "Lincoln Park was created from a succession of sand dunes, with a swale or two intervening, the sand being washed and of the most sterile description. The swales or low ground did not produce black soil enough to give a covering to the surface of the park of more than an inch in thickness, and despite all subsequent efforts and expenditure of money in the direction of increasing the soil deposit, the fact remains that we are still far from having a sufficiency of alluvial soil to insure growth in trees, shrubbery and grass. In view of the great and constantly increasing use made of our lawns by the public, it is an imperative necessity that every effort be put forth to add to the depth of the surface soil. During each of the past three winters about 8,000 cubic yards of manure have been spread on the lawns, and being well rotted, little but the sticks and stones require removal in the spring. This mode of applications, while beneficial to the growth of grass and trees, is not lasting; a few rains serve to carry off a large proportion of the fertilizing properties of the manure down through the sand, and a great waste is the result. A bottom of some retentive material, such as clay or heavy soil, is needed to hold the leachings of fertilizing matter for the benefit of plant growth. The 29 acres of new ground made during the past three years have been treated with tolerable generosity in the matter of soil covering; first on the sand was spread a layer of clay from the road and path excavations, of 6 to 8 inches in thickness, overlaid with a compost of 10 or 12 inches of heavy black soil. Such a covering will maintain lawns in fair condition under hard use, with care and attention; it is not, however, enough to promote a vigorous growth in shrubs or trees. Planting a tree in a hole in the sand containing a few yards of soil will not insure luxuriant growth or large proportions in the tree, especially when further handicapped by a smoke and dust laden atmosphere."

One of the most interesting sights to be seen at Lincoln Park is the display of aquatics, which presents many rare and interesting varieties. Of these Mr. Pettigrew says: "In 1889 a depression between two sand dunes on the lake shore, north of the cugine house, was devoted to the culture of aquatic plants. Two ponds aggregating about 6,700 square feet were constructed, irregular in outline, the walls and bottom of cement concrete, the side walls being faced with rustic rock

work, surrounded by an accompaniment of grassy slopes and walks. One of the ponds, being artificially heated, permitted the growth of exotic water lilies. Over 25 species of nymphæas have been successfully grown. Besides our white, pink and yellow flowered species we succeeded in flowering freely the gorgeous red and white night bloomers, *deveniusii*, *dentata* and *rubra*, together with the purple and azure tinted beauties from Zanzibar. Several species of lotus (*Nelumbium*) too were strikingly beautiful; the flowers vary in color from creamy yellow to bright rose and they differ from the nymphæas in having their umbrella like leaves elevated high above the water.

The most attractive feature of the ponds was the Victoria regia. This plant for the singularity of its structure and beauty of its flower was known by description to almost everyone, but very few had had the privilege of seeing the plant itself. It was doubted whether it could be grown in the open air in this latitude, but it has seemingly grown as well here as on the Amazon, each plant covering nearly 900 square feet of water, and seldom being without flowers from July until frost. Many other plants besides water lilies are grown in and around the ponds. Water hyacinths, sagittarias, ornamental rushes and grasses, with the curious floating stratiotis and other curious forms of plant life leaves fill up the spaces not covered by the shield-like leaves of the nymphæas, making altogether a grand display either by day or under the electric lights. The appreciation shown by the public for the quiet beauty of this kind of display induced the commissioners the following year to extend the system of ponds into a ravine further north, a place particularly well adapted to the purpose, being well protected from the winds of Lake Michigan by a high sand dune. The surplus sand was excavated and sold early in the spring and the work of forming the miniature lake begun. The sides and bottom were formed of plastic blue clay laid on about six inches thick. This has proved water tight, although laid on porous sand. The shore of the lake is sinuous and the banks undulating. A waterfall, tumbling from an elevation, serves to supply fresh water, while masses of rock along the line of its flow heighten the natural effect, it being the intention to further extend this feature for a rock garden. This pond, which contains about 19,872 square feet, was completed early enough in the season of 1890 to permit of the planting out of the aquatics, and during the late summer and fall they made a very good showing and are now well established and steadily growing in favor with the visiting public."

The arrangement of the storage sheds is most convenient and worth describing. To quote again from the report, "a substantial stone building 220x100 feet and 17 feet high was built. The roof was placed at 13½ feet and made deck fashion, of 3-inch Norway pine plank, caulked water tight. This roof forms the floor of a range of greenhouses, 14 in number, the side walls of the building carried up beyond the floor forming the outside walls of the range all around. The houses are low and are used for propagating and forwarding houses. In the basement, which is well lighted by windows on two sides, are established the carpenter, blacksmith and paint shops, also the dynamos for furnishing light for the electric fountain. The boilers for heating the houses above are also here, as well as the space reserved and the chimney capacity pro-



The Dairy Building from South-east

THE DAIRY BUILDING, WORLD'S COLUMBIAN EXPOSITION.

vided for the palm house and conservatory now under construction. The whole arrangement is convenient and economical by reason of the concentration of workshops, materials, tools, etc., under one roof, the only cause for regret perhaps being that the cost of iron and fire proof tiling prevented their use in the greenhouse floor."

The palm house, conservatory and orchid house, now under construction are of remarkably fine construction. The roof is composed of steel and rough ribbed plate glass one-fourth inch thick. In the beating some new features are introduced. The hot water method has been adopted; radiating coils of one and a quarter inch pipe will be concealed in chambers behind rock work. The radiating pipe service will be arranged in independent sections and each section controlled by an automatic heat regulating device. The boilers being distant from the palm house about 350 feet relieves us from the question of chimney intrusion; the chimney as it is now placed is a part of the propagating house plant, leaving the palm house range in its beautiful lines clear from suggestion of shed or factory. Any difficulty in the way of hot water flow, by friction in pipes or by violating the laws of gravitation will be overcome by placing a steam pump in the return pipe near the boiler, whereby the speed of the flow can be regulated at will. The planting in these houses will be such as to give a perfectly natural effect; pots and tubs will be banished, rocks, mosses and climbers varying the effects. The fernery will be arranged in the form of a rocky dell, with a little stream and cascade at the bottom.

Outside, says the superintendent, "a revival of an old garden feature was commenced last season—the old-fashioned and dearly remembered herbaceous border. The lawn west of the Stockton drive and opposite the flower garden was selected as a fitting spot. This space is a grassy tree and shrubbery bordered glade about 700 feet long and about 100 feet wide. The design of the border is sinuous, corresponding generally with the foliage line on either side of the glade. The experiment will first be tried without walks, allowing the public to wander on the grass along the winding margins of

the flower borders. Unlike the arrangement of plants for color effect in the flower garden on the opposite side of the drive, the beauties of the old-fashioned garden requires close, familiar and individual acquaintance. Each plant has a grace, a beauty or sweetness peculiarly its own, and commands admiration from the lover of nature by virtue of its individual characteristics. While the carpet bedding reveals at one glance its beauty as a whole, the herbaceous border keeps those who care to search out its treasures interested as long as they can stay, ever showing something new, and inviting a closer investigation from the most casual observer. This form of gardening is inexpensive, but requires time for the establishment of the mostly permanent plants. The variety of color and form that can be used in the border is almost endless and gives an opportunity for the display of many of our native species, which are valued in other countries as among the most beautiful flowers in cultivation, but here in their native country comparatively neglected."

Our Telephone.

"Hello, Flatbush, N. Y. Can you put us in communication with Mr. G. Bergmann?" "Certainly. Line connected. Go ahead."

"Is that you, Bergmann?" "Yes, this is Bergmann."

"This is the AMERICAN FLORIST. We hear that your cyclamens are very handsome this year and would like to have you tell us something about them." "Yes, they are looking well. But you should come and see them. Glad to show them at any time. I have some that are worth seeing; plants 18 to 20 inches across in 6-inch pots."

"They must be handsome. When did you sow the seed?" "Late in September last year. If you want large plants for fall sales you want to sow in September or early in October at the latest. Another thing, don't plant your seed in too hot a place, it takes them twice as long to germinate when in too high a temperature. It takes about four weeks in the proper place."

"How about watering?" "That's very

important. A good many can't get the seedlings up at all. This is often caused by over watering. If you water the seed too much you can't get it up. Fully as great care is required when they are just germinating. If the green fungus appears that is the end of them. And even if they do grow the plants get sickly right away. Look out for too much water on cyclamens. Even with strong plants if the soil gets sour and the roots get checked once it is a very hard thing to start them again. They want plenty of good drainage."

"Is there anything special to be said regarding their summer cultivation?" "We get them into thumb pots in spring and shift them along as required. It will not do to let them get pot bound. That is one of the main things in growing them successfully. A good many spoil their cyclamens by letting them get pot bound. As soon as the roots touch the pot the plants should be repotted. Otherwise they will not make an even growth. We usually give them a shift after the buds get set, so as to give them good nourishment. We have had good results with cyclamens that have been planted out all summer and not potted till fall."

"We have heard of a lot of cyclamens coming into bloom prematurely, say in August and early September. How would you account for it?" "Probably it was caused by allowing them to get pot bound. If this happens in the summer they set buds at once."

"What colors do you find sell best?" "The pink and the white with red tip. Pink sells best of all. Pure white don't sell nearly as well with us. We had too many white last year. One word more about summer care. We keep tobacco stems laid between the plants and renew them frequently during the summer."

"Have you any news in the carnation line?" "Nothing, only that the famous American Flag is sporting to its original color again. I have one bed that has more red than striped in it. I consider it sporting rather than reverting, for these red ones are freer than Portia. You know the American Flag is much freer than its parent, and these are like the Flag in that respect."

"Another thing, you know we get of late years a lot of Portia off color,

striped and discolored. I've had to discard lots of them. I find Lady Emma much more constant. But change of stock may have done it. It is a great thing to change the stock once in a while.

"Silver Spray catches the rust badly with me. Last year I had to throw my Sprays out when the season was only half over. Wilders are exceedingly healthy this year. By the way, I have got a new sport from American Flag with markings like the old Hinsdale, but flowers larger and better every way. Immense sporter that Flag is. Come out to Flatbush some day and we will go over to see Dailledouze's chrysanthemums. They are great."

Cypripedium Constableanum.
NEW HYBRID.

This hybrid was obtained by crossing Cyp. Dayanum with the pollen of Cyp. Fairicannum. Leaves short, very light green, with a faint tessellation, stem 5 to 6 inches high, thin and hairy. Flower small, well shaped, dorsal sepal pointed, incurved, whitish with apple-green veins, lower sepal small, greenish. Petals with the ends turned upwards reflexing backwards, white shaded light green lined and spotted with purple lines and dots, and lined with conspicuous hair on both edges. Lip pointed, turning upwards, green, shaded and lined with brown.

This hybrid approaches Fairicannum more than any other hybrid raised from that species. It was named in honor of F. A. Constable, of New York City.

JOS. MANDA, Jr.

DIRECTORY CORRECTION—Lausangville, N. Y., should read Lansingburg.

A DOUBLE GLOXINIA.—In answer to the query in a recent issue of the FLORIST, a double gloxinia was grown in 1870 by a Berlin gardener.

READER.

THE NILES CENTER FLORAL CO. of Chicago has been incorporated with a capital stock of \$1,500. Incorporators, Moses Solomon, E. J. Walsh and W. S. Newberger.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

**OUR NEW
TRADE DIRECTORY
AND
REFERENCE BOOK
FOR 1892
IS NOW READY.**
Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

ROOTED CUTTINGS.

CARNATIONS, GERANIUMS, ETC.

CARNATIONS are always on top with me; that's the reason I am always on top with Carnations. I've more of them and better than ever this season. Write for a list or call and see them.

GERANIUMS, an assortment that is an assortment, every one a good one; the old motto "the best is the cheapest" applies to these. There is 25,000 now ready, at \$2.00 per 100 or \$15.00 per 1000 labeled. Without labels, \$1.50 per 100 or \$12.50 per 1000.

Send for preliminary list of these and other stock.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

CARNATIONS

FOR 1893.

GRACE BATTLES. Having purchased an interest in Mr. Lonsdale's beautiful pink seedling, orders are solicited for delivery Feb. 15, my own growing.

From my list of the newer varieties note the following:
PERLE. White, with sometimes pink diffused, 3 to 3½ inches across, fine form, fragrant and handsome.

THOS. CARLEIDGE. Slightly deeper shade than Thel Ware, with long erect stems, flowers full in center of the form, productive and remarkably quick to come in bloom.

Puritan, Golden Triumph, Aurora, Nancy Hanks, Grace Darling, Crimson Coronet, Peachblow Coronet, Emily Pierson, Orange Blossom.

I shall make a special run on

ANGELS.—As a near approach to the ideal in form and habit, of good size, a lively shade of pink, deeper than Wilder without streaks in midwinter.

CENAR.—As the best variegated variety, very large and full, extremely productive, stems erect, highly recommended for crossing.

DAYBREAK.—Delicate salmon pink, of good habit and constitution.

BITTERIC.—As the standard yellow variety.

My annual list will contain full descriptions of the above and over 50 other varieties of my own growing which I shall offer the trade.

Correspondence and personal inspection invited.

C. J. PENNOCK,

The Pines, Kennett Square, Chester Co., Pa.

CARNATIONS

Strong, healthy, well grown plants.

Mrs. Fisher,	Orient,
J. J. Harrison,	Lizzie McGowan,
May Queen,	Hector,
The Century,	W. P. Deere,
Fred. Creighton,	American Flag,
Portia,	

1st size, \$8.00 per 100; \$70.00 per 1000.

2nd size, \$6.00 per 100; \$60.00 per 1000.

PURITAN.—The best white. Early, productive and healthy. 1st size, \$5.00 per 100; \$50.00 per 1000. 2nd size, \$10.00 per 100; \$100.00 per 1000.

Hybrid Perpetual Roses.

Strong, well grown plants, \$10.00 per 100.

**WOOD BROTHERS,
Fishkill, N. Y.**
Mention American Florist.

**CARNATIONS,
FIELD GROWN.**

GOLDEN TRIUMPH,

and other varieties. Send for list with prices. A few hundred second size plants of Golden Triumph at a reasonable price.

R. T. LOMBARD, Wayland, Mass.

CARNATIONS

A fine lot of Carnations, field grown.

For sale cheap.
Hilze's White, Lamborn,
L. L. Lamborn, Grace Wilder,
Hector, Crimson King,
American Flag, Portia,
Tidal Wave, Aleutian,
\$5.00 per 100. Cash with order.

W. M. ELDRIDGE, 11 S. Franklin St., Wilkes Barre, Pa.

WATER LILIES.

SPECIAL TRADE LIST OF PLANTS,
DORMANT TUBERS AND SEED FREE
ON APPLICATION.

WM. TRICKER, Dongan Hills, S. I., N. Y.

A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gale** at \$8.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Carleidge	Nancy Hanks
Perle	Dorrie
Golden Triumph	Mrs. Hill
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag.

EDW. SWAYNE, Carnationist,

KENNETT SQUARE, PA.

10,000 CARNATIONS.

Garfield, Hilze's,.....	\$9.00, \$7.00 and \$ 8.00
ROSES. Albany, La France, Mermel and Safrano, from 3-inch pots,.....	6.00
Albany, La France and Wootton, from 2½-inch pots,.....	5.00
Bride, Mermel, Safrano and Bon Silence, 2½-inch pots,.....	2.50
Asparagus Tenquissimus, 3½-inch pots,.....	8.00
Dracena Indelsa 4-in. pots.....	\$1.00 per doz. 8.00
Fern Pteris Serrulata, 3-in. pots, \$1.00 each, 8.00.	
" " " 2-inch pots, 90c each, 4.00	
Grevillea Robusta, 15 to 18 in. high, \$2.00 doz. 15.00	
Pandanus Utilia, 4-inch pots, strong, \$5.00 per doz.	

**NATHAN SMITH & SON,
Adrian, Mich.**

CARNATIONS

30,000 field grown plants. Stock fine, healthy, bushy plants.

Hilze's White,.....	Per 100
Orange Blossom,.....	\$ 5.00
Snow Bird,.....	10.00
Lizzie McGowan,.....	6.00
Mayflower,.....	6.00
White Wings,.....	5.00

5,000 Marie Louise Violets, \$8.00 per 100. Extra fine plants, free from disease.

Address **GEO. B. WHITEHEAD,**
Lock Box 116, **GREEN'S FARMS, CONN.**

NANCY HANKS

beats them all, both

HORSES AND CARNATIONS.

Shade of the popular Grace Wilder but of stronger growth. Field grown plants of these and Daybreak; also 50 other varieties. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y.

Worcester, Mass.

We are having very fine weather this fall, days are warm and clear and as yet we have had no severe frosts. Nearly everything is housed now, and as outside stuff is past except a few asters, there is not much of a surplus. Carnations have suffered considerably from the ravages of a black and yellow worm that resembles the cabbage worm; hand-picking seems to be the only remedy; paris green will kill them, but it is mean stuff to use. Roses are looking tidy and are blooming freely; everybody is tickled with Meteor, it is a great rose. Watteville and Cusin sell at sight.

I made a little trip through several prominent places here the other day and everybody has chrysanthemums in abundance, and right good 'mums' too, though a few growers are a little slow in dis-budding. Lange has a splendid lot of Ivory that will be in flower in 10 or 12 days, which, by the way, is the best selling white that is grown around here.

Thayer has a bed of the Lamborn carnation in his new house that look very strong and promising, he tried them last year and was troubled by the flower rotting before it was fully developed.

The bulb trade is hanging off, as we have not had frost enough to kill off the stuff that is now occupying the beds. Trade is commencing to get its winter gait on now and things are getting livelier. I saw the first Marie Louise violets in the market a week ago; single Russians are good and still plentiful.

SEEDLING.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet.....^{Per} 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for old bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00

MRS. FISHER..... 7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00
The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,
in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

Kaiserin (Empress) Augusta Victoria

THE COMING WHITE H. T. ROSE.

Having grown this grand new Rose for the past 18 months, I can recommend it to the trade. The plant is a very strong, healthy grower, with beautiful foliage, nearly every shoot producing a flower on long erect stems, of ivory whiteness and beautiful shape. I have a house full of them which is admired by every florist. My stock comes direct from the originator.

Price of Plants in 4-inch pots,
\$5.00 per dozen.

Price on larger quantities on application. Cash with the order.

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS \$30.00 per 1000

HYBRIDS 49.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

10,000 JACK ROSES

1 and 2 years old, on their own roots, well branched.

PER 100
2 to 2½ feet high.....\$10 00
2½ to 3½ feet high..... 15 00
3½ to 4½ feet, extra large for plant-ing out..... 20 00
Will send sample of 10 on receipt of \$4.00.

We have about 5,000 assorted PALMS, in 5 to 7-inch pots. Prices on application.

Jordan Floral Co.,

706 Olive Street, ST. LOUIS, MO.

Mention American Florist.

TREE ROSES.

Minnesota-grown, strong 2 year old tops, healthy, well-grown trees from 2 to 6 ft. high (stem height), over 100 of the very best varieties to select from.

Price, from 2 to 4 feet high (stem height), \$1.00 each; dozen, \$9.00; hundred, \$80.00. From 4 to 6 feet high, \$1.50 each; dozen, \$14.00; hundred, \$100.00. Ready for immediate delivery.

Our new method of wintering safely the most tender tea roses on their standing place anywhere in the Northern States free with an order for a dozen trees or more. Write for Catalogue.

M. WINDMILLER & SONS,

MANKATO, MINN.

ROSES CHEAP.

Several hundred Brides and Mermet, open ground, 2 years old, strong plants, \$8 per 100. Perles at 15 cents.

Plumbagoes, blue and white, 4½-inch pots, strong and bushy, \$7.00 per 100.

F. WALKER & CO., 644 Fourth Ave., Louisville, Ky.

OUR NEW

TRADE DIRECTORY

—AND—

Reference Book

FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of a 1 National and Local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

YOU CAN'T AFFORD TO BE

WITHOUT THIS BOOK.

Price, \$2.00, Postpaid.

AMERICAN FLORIST CO.,

322 Dearborn St., CHICAGO.

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

Roses in Variety.

Hybrids, Teas and Ever-bloomers.

A few thousand Thos. Hogg, Horlensis, Horlensis var. and paniculata grandiflora Hydrangeas, in 2½-inch pots; are in prime order to report into 4-inch pots. Price \$5.00 per 100; \$40.00 per 1000.

Primulas, single, 2-in. \$6, 3-in. \$8 per 100.

FERNES: Adiantum princeps, 6 and 7-inch pots, \$10.00 and \$15.00 per 100.

We are still in our old location.

GEORGE W. MILLER,

1748 N. Halsted St., CHICAGO, ILL.

THE

NEW ROSE

BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

Hybrid Perpetual Roses,

Worked long on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Established plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSE

ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

Mention American Florist.

BLOOMINGTON (PHOENIX) NURSERY.
800 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, shrubs, cactuses, Vines, Small FRUITING Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Free Catalogue mailed free. Established 1852.

PHOENIX NURSERY COMPANY

Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

Vernon Begonias

FOR

WINTER BLOOM—PROPAGATING.

¾-inch pots, in bloom, very fine and stocky, 15 cts. each; dozen, \$1.50; hundred, \$12.00.

Year old plants, field grown, extra strong, 20 cts. each; dozen, \$2.00; hundred, \$15.00.

Mailing size plants, in bloom, 5 cts. each; dozen, 50 cts.; hundred, \$4.00.

M. WINDMILLER & SONS,

MANKATO, MINN.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
varies pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

San Francisco, Nov. 1-4—California State Floral Society.
New York, Nov. 1-7—New York Florists' Club.
Wm. Plumb, manager of exhibition, Madison Square Garden.
Philadelphia, Nov. 7-11—Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Toronto, Ont., Nov. 8-10—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 8-10—St. Louis Florists' Club.
Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Hartford, Conn., Nov. 8-10—Hartford County Hort. Society. Julian S. Allen, Sec'y.
Boston, Nov. 8-11—Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 8-11—Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
Milwaukee, Wis., Nov. 8-11—Wisconsin Florists' and Gardener's Club. A. W. Bennett, Sec'y, 108 Wisconsin St.
Minneapolis, Minn., Nov. 8-11—Minneapolis Florists' Club. E. Nagel, Sec'y, 1118 W. Lake St.
Cincinnati, Nov. 8-12—Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Galt, Ont., Nov. 9-10—Galt Hort. Society. Edward Lane, Sec'y.
Worcester, Mass., Nov. 9-10—Worcester Hort. Society. E. W. Lincoln, Sec'y.
Montreal, Nov. 9-11—Montreal Gardeners' and Florists' Club. H. Stocking, Sec'y, 230 St. Denis St.
London, Ont., Nov. 9-11—London Gardeners' and Florists' Society. Wm. Gammage, Sec'y.
Buffalo, Nov. 10-12—Buffalo Florists' Club. Edw. I. Mepsted, Sec'y, 479 Main St.
Washington, Nov. 15-17—Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.
Oshkosh, Wis., Nov. 15-17—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
Baltimore, Nov. 15-18—Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Pittsfield, Mass., Nov. 15-18—Berkshire County Gardeners' and Florists' Club. A. P. Meredith, Sec'y, Pittsfield.
Indianapolis, Nov. 15-19—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St. Pittsburg.
Erie, Pa., Nov. —Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
Bay City, Mich., Nov. —Bay County Hort. Society. T. J. Cooper, Sec'y.
Providence, R. I., Nov. —R. I. Hort. Society.
C. W. Smith, Sec'y, 55 Westminster St.

Catalogues Received.

Haage & Schmidt, Erfurt, Germany, bulbs; C. Deegen, Kostritz, Thuringia, sacred calla; Pitcher & Manda, Short Hills, N. J., orchids; same, seeds and bulbs; Pape & Bergmann, Quedlinburg, Germany, seeds and bulbs; Vilmorin, Andreux & Co., Paris, France, seeds and bulbs; The L. Green & Son Co., Perry, O., nursery stock; F. W. Kelsey, New York, trees and shrubs; John Saul, Washington, D. C., plants and nursery stock; R. Douglas & Sons, Waukegan, Ill., nursery stock; E. H. Krelage & Son, Haarlem, Holland, bulbs; Schlegel & Fottler, Boston, bulbs; Weeber & Don, New York, seeds and bulbs; Bush & Son & Meissner, Bushberg, Mo., grapes; John H. Ley, Anacostia, D. C., decorative plants; Huntsville Nurseries, Huntsville, Ala., nursery stock; Ketten Freres, Luxembourg, Europe, roses; John Palmer & Son, Annan, Scotland, nursery stock; William Tricker, Dongan Hills, N. Y., aquatics; Association Flora, Boskoop, Holland, plants and nursery stock; H. G. Faust & Co., Philadelphia, seeds and bulbs; Wm. Parry, Parry, N. J., nursery stock; P. J. Berckmans, Augusta, Ga., plants and nursery stock; John Laing & Sons, London, England, bulbs; H. P. Michell, Philadelphia, bulbs; G. R. Gause & Co., Richmond, Ind., bulbs, plants and seeds.

MESSRS. H. H. BERGER & Co. of San Francisco have opened a branch house in Yokohama, Japan, under the management of Mr. A. Unger, which will considerably increase their facilities for the importation and delivery of the Japanese bulbs and plants which are a specialty with them.

Keeping Fern Fronds.

Will some one tell me the best way to keep dagger and other fern fronds for winter use? NOVICE.

Asparagus Plumosus Nanus.

How high should a house be for growing this? Should it be planted on benches or in beds? What soil should be used, and how deep should it be? W. A. K. Mass.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

MY

"CHRY-S-COLA"

Price List of Rooted Cuttings

CHRYSANthemUMS,
COLEUS and
GERANIUMS,

is about ready. If you are interested in first-class rooted cuttings, send for it.

S. B. FIELD, Roselle, N. J.

**WHITE DOVES**

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

AGENTS:
J. C. Vaughan, Chicago, Ill.
H. Bayerdorfer & Co., Phila., Pa.

DAN'L B. LONG,
COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

HARDY CUT FERNS

MOSS (SPHAGNUM AND GREEN SHEET.

A 1 TVV LEAVES.

BOUQUET GREEN and FESTOONING of
all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Place. BOSTON, MASS.

CUT SMILAX.

Summer prices, 15 cents per string. Special attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to
I. HORACE McFARLAND, Harrisburg, Pa.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

CUT CHRYSANthemUMS.

The finest and best grown blooms in the market,

AT 10 TO 25 CENTS EACH.

Prices for show blooms on application.

All other Cut Flowers in season.

H. L. SUNDERBRUCH,
4th and Walnut Streets, **Cincinnati, O.**

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS., WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL, Wholesale Florist and Dealer in FLORISTS' SUPPLIES,

118 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

McKELLAR & SPERRY, WHOLESALE Cut Flowers and Florists' Supplies

128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.

Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON,* Wholesale FLORIST,

66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WHOLESALE FLORISTS

Le Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK, Wholesale Florist

38 S. 16th Street, Philadelphia, Pa.

SMITH, The Florist, GROWER OF Fine Roses and other Cut Flowers WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

Wholesale Markets.

Cut Flowers.

	NEW YORK, OCT. 18.
Roses, Perles, Gontiers, Niphetos.....	1.00@ 2.00
" Meruets, Brides, Hoste.....	2.00@ 3.00
" Watteville, Cusin.....	2.00@ 3.00
" La France, Albany.....	2.00@ 3.00
" Beauty.....	8.00@25.00
Carnations.....	1.00@ 1.25
Valley.....	6.00
Violets.....	.50@ 1.00
Cosmos.....	.50
Adiantums.....	1.00
Smilax.....	12.00@15.00
Asparagus.....	40.00
	BOSTON, OCT. 18.
Roses, Niphetos, Gontier.....	2.00@ 3.00
" Bride, Mermet, Wootton.....	3.00@ 4.00
" La France, Meteor.....	4.00@ 6.00
" Perle, Sunset.....	3.00@ 4.00
" Beauty.....	12.00@25.00
Carnations.....	1.50@ 2.00
Asters.....	1.00@ 1.50
Valley.....	4.00
Tuberose.....	.75@ 1.00
Stephanotis.....	.25
Violets.....	.50@ 1.00
Anemone Japonica.....	1.00
Cosmos.....	.50
Chrysanthemums.....	6.00@12.00
Asparagus.....	40.00
Adiantum.....	1.00
Smilax.....	12.50
	PHILADELPHIA, OCT. 18.
Roses, Beauties.....	15.00@20.00
" La France, Albany, Mermet, Bride.....	3.00@ 4.00
" Pierre Guillot, Wootton.....	3.00
" Cusin, Watteville.....	3.00
" Perle, Niphetos.....	2.00@ 3.00
Valley.....	6.00
Carnations.....	1.00@ 1.50
Violets, double.....	.50@ .50
Chrysanthemums.....	8.00@25.00
Royalties.....	1.00
Dahlias.....	1.00
Violets.....	.50
Adiantums.....	1.00
Smilax.....	15.00@20.00
	CHICAGO, OCT. 18.
Assorted roses.....	4.00@ 5.00
Am. Beauty.....	10.00@15.00
Carnations.....	1.00@ 1.50
Violets.....	.75
Chrysanthemums.....	2.00@ 8.00
Sweet peas.....	.50
Cosmos.....	.50
Smilax.....	16.00@20.00
Asparagus.....	25.00

Peck & Sutherland, Successors to WM. J. STEWART, Cut Flowers and Florists' Supplies

WHOLESALE.

67 Bromfield Street, BOSTON, MASS.

N. E. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES.

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL

C. A. KUEHN, (Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST. ST. LOUIS, MO.

BURNS & RAYNOR, 49 West 28th Street,

NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN, WHOLESALE FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY, WHOLESALE DEALERS IN CUT FLOWERS

51 W. 30th St., NEW YORK.
FRANK D. HUNTER, JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART, WHOLESALE FLORIST,

117 W. 30th St., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHRs, WHOLESALE FLORIST,

111 WEST 30TH STREET,
NEW YORK CITY.
Mention American Florist.

MILLANG BROS., Wholesale Florists,

5 WEST 27TH STREET,
NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street

MICHAEL A. HART, Wholesale and Commission Florist

113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations.

Branch, at Cut Flower Exchange, 408 E. 34th St.

WELCH BROS., Wholesale Florists,

NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

H. L. SUNDERBRUCH, WHOLESALE FLORIST

4TH & WALNUT STREETS,
Cincinnati, O.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VADGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1903. Applications for membership should be addressed to Wm. Meggat, chairman membership committee, Wettersfield, Conn.

SWEET PEAS are reported as a short crop in California.

MR. WM. MEGGAT is now making his annual trip to the Pacific Coast.

REPORTS from Europe indicate that the radish crop is short in Germany, likewise Kohlrahi. Germany also reports that the dry summer will cause valley pipes to be smaller than usual, but it is not expected that their forcing quality will be in any way impaired on this account.

IN NEW YORK Liliun Harris is about exhansted in first hands, except a few 5-7 inches. Liliun longiflorum, Bermuda grown, is a decidedly short crop. Boats discharge cargo at New York now without fumigation, even Hamburg vessels being so admitted if no cholera has developed during passage.

MR. S. B. DICKS is anxious for the FLORIST to set him in the right light before its readers, some of whom he thinks may have concluded that the rapeseed referred to in his notes in our issue of September 29 may have been supplied by his firm. This we gladly do, though not believing that Mr. Dick's notes could in any way be construed as referring to stock supplied by Cooper, Taber & Co.

Unpleasant features in Horticulture.

All our energy seems to be directed towards improving the size and color of flowers, but none is directed toward improving or elevating our profession generally. At present the tail-board of our calling may drag in the mire, if only the bosses can cut a big swath. The contrast between the head and the tail of our much lauded business is unreasonably great. Only one prominent florist, to my recollection said a few words in behalf of those who do a fair share towards producing, and making this business what it is, and it seemed queer to me that he regretted that he had been singled out to say a few words in their interest. But the most difficult wrong of all to right, is the one that falls exclusively to the lot of foreman and gardeners, both are ever conscious of the fact that the party who engages their services owns them at the same time. The foreman, nor the gardener, can claim that individuality that a mechanic or a professional man can; his position is exactly that of a cook and coachman, yet we are told that we are superior to both. A florist, or a gentleman (as he is called) wants a foreman or gardener, as the case may be; he demands first class references from last employer, no questions are asked as to who and what this last employer was, no attention is paid to what caused him to leave. The would-be employer is not expected to give references, nor explain why his foreman or gardener left, of course he was discharged, because he knew nothing of the business, yet he had first class references, and fifteen years experience, when he engaged him. Can Mr. E. of Toronto, explain how a college can correct such a state of affairs?

Every one of us knows one or more parties who are continually in need of first class men. Dozens have tried it there, only to be marked *no good*. Can Mr. E. of Toronto, suggest a means by which good men can be protected against such unscrupulous employers? Can't this one man's verdict, as to a gardener's or foreman's competency, be broken? Is it always self-evident that the last employer is competent to judge, and a truthful man? Perhaps Mr. E. of Toronto, takes these everlasting hunters after first class men as a proof that a horticultural college is necessary, and I take pleasure to tell him *fossil or no fossil*, that such employers as I referred to above, cannot be relieved by colleges, they could, if they could be persuaded to take a term there, but that they won't do. Gentlemen like Mr. E. of Toronto, who claim that our profession is in need of manufactured gardeners, as helpers, should first take a trip around and find out where, and how many such goslings are wanted, and how will they be treated, and who the parties are that want them. I prophesy it now, whether I am a fossil or not, they will find no demand, no need for them any where. I am not opposing education, but I am opposing a delusion and a humbug.

Pessimist.

News Notes.

LOS ANGELES, CAL.—Mr. C. R. Orent and Miss Olive L. Eddy were married September 27.

ST. PAUL, MINN.—The Warrendale Greenhouses have opened a store at 113 East 3rd street.

ATCHISON, KANS.—R. Walker has removed his greenhouse from Leavenworth to this city and will carry on business here.

DENVER, COLO.—During Thanksgiving week a chrysanthemum show will be held here. It is to be managed by ladies of the Methodist churches.

NEW ORLEANS.—Mr. R. Maitre has sold his business to Mr. Uriah J. Virgin, who will continue the business at the old number, 140 Canal street.

BEATRICE, NEB.—S. H. Dale & Sons have been making an addition of 1,500 feet of glass to their establishment this fall. They now have four houses.

WINONA, MINN.—The Woodland Cemetery Association has just finished a new house 20x80 feet, with buttled glass and hot water heating, making their third house.

OSHKOSH, WIS.—The Oshkosh Florists' Club has issued a premium list for their third annual chrysanthemum show and floral exhibition, to be held November 15 to 17. Copies may be had by addressing the secretary, Mrs. G. M. Steele, Oshkosh, Wis.

PITTSFIELD, MASS.—The Gardeners' and Florists' Club will hold their first chrysanthemum show this year. This is quite a young society, but is gaining steadily, and the interest displayed in floricultural matters throughout the district leads the members to anticipate a thoroughly successful exhibition. The premium list includes plants and cut flowers in chrysanthemums and other classes.

SAN FRANCISCO, CAL.—The California State Floral Society will hold their chrysanthemum show on November 1 to 4 in-

clusive at the Mechanics' Pavilion. Another floral society, called the Floral Society of Alameda County, is just organized, and the first flower show will be held towards the middle of November. Alameda county embraces the cities of Oakland, Berkeley, West Berkeley, Alameda and several other suburbs, from which San Francisco is largely supplied with fine flowers.

J. A. CARPONE.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—By young man; 6 years' experience; age 25. Good references. Address with particulars, A. C. Carpenter Florist, Chicago.

SITUATION WANTED.—By a young gardener, 21 years of age, 6 years experience. Danish, 5 years in this country; reference given. Address JOHN SEVERIN, 130 Broad St., Providence, R. I.

SITUATION WANTED.—As florist; 18 years' experience in Europe and U. S.; age 32, single. Posted in propagating and growing of roses, tulips, ferns, carnations, forcing of bulbs, etc. H. cure Ann Florist.

SITUATION WANTED.—By a florist; experienced in landscape gardening, cut flowers and vegetables; age 28 years, single. German place preferred. Address PETER T. SCHWAB, 250 E. Federal street, Youngstown, Ohio.

SITUATION WANTED.—By a thorough practical S. gardener and florist, fully competent in all branches, care private and commercial plants, carnations, violets, etc. Address: W. G. 214 Union St., Ellandale, N. J.

SITUATION WANTED.—As foreman or manager; is S. thoroughly practical in landscape work, planting, etc. Opelika, plants, shrubs and greenhouse plants, specialty. Any lady or gentleman can apply to Mr. Garne, 626 Fifth Ave., New York, as to character and ability. F. FIDICATA, Bar Harbor, Maine.

SITUATION WANTED.—By practical gardener and S. florist, private, place preferred, of commercial, several years' experience in landscape gardening, cut flowers and vegetables, good worker, age 25, married, no children, best references; state wages, etc. Correspondence answered promptly. Address GARDENER, 264 Vernon avenue, Chicago.

WANTED.—A man to grow tobacco on shares. Apply A. N. B. LOCK, Conshohocken, Mont. Co., Pa.

WANTED.—A man that has had experience in a retail flower store. Address with full particulars H. H. BATTLE, 108 S. 22d St., Philadelphia.

WANTED.—Sober competent man on private place, one glass, must understand house and garden, and bedding; no family, wages \$40 per month. A good worker with reference can apply at once by letter to W. H. S. Lock box 11, Morgan Park, Ill.

WANTED.—A seedsmen competent to take charge of a seed business; must furnish best of reference as to ability and character; must be temperate, a good salesman. State experience and wages required. Address GEO. A. WEAVER, Newport, R. I.

WANTED.—Hot water boiler and 1,000 feet of pipe. Would like decorative and other plants and glass for \$1,500 equity in a well improved 30 acre farm in Stark county, Ill. Farm rents for \$1.50 per acre cash. Answer at once. T. Z. M. Kowancie, Ill.

FOR RENT OR SALE.—Floral store and two greenhouses 12,500 feet, fully equipped with stock and fixtures. H. R. HUGHES, 60 Van Buren, Chicago.

FOR SALE.—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam; gravity 80 feet long just coming into bearing, recently built; 30 acres of land; abundance of fruit; large house containing 15 rooms, new barn; within 25 miles of Philadelphia and one mile from station. Will be sold at a low price. Inquire at once. Address ISAAC LARAIN, Tonghkenamon, Chester Co., Pa.

FOR RENT.

Tenant house with three greenhouses, all modern improvements, for a good commercial business. Situated within half mile of Conshohocken Station, Pa. 12 miles from Philadelphia. Good opportunity for an active man for local and cut flower trade.

A. N. B. LOCK, Conshohocken, Pa.

FOR RENT.

A greenhouse plant consist of a 20x150 feet plot of ground, a six-roomed brick house, brick potting and tool house, about 250 linear feet of glass house heated by hot water, and about 55 feet of hot beds. This is situated in the most fashionable part of the most progressive town in Eastern Pennsylvania, having a great university and two large ladies' seminaries. The truck garden on the place is of especial value. The property recently came into the possession of the present owner through inheritance, and the whole stock of plants and tools will go with the lease. The rose house is of especial value. A five year lease will be given. Rent must be guaranteed. Address P. O. BOX 821, Hazleton, Pa.

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow. It must be fresh, well spawned, and in good condition. Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise,

"Mushrooms for the Million," Mailed free. Falconer's "Mushrooms and How to Grow Them." Published at \$1.50. (Gardiner's price \$1.35 post free.) Robinson's "Mushroom Culture," 50 cts. post paid.

GARDINER'S ENGLISH MUSHROOM SPAWN

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$3.00 per 100 lbs. Special rates to large growers. Address all correspondence to 81 North Thirteenth Street, Philadelphia, Pa.

JOHN GARDINER & CO**STOCK THAT SELLS WELL!****LILY OF THE VALLEY**

FROST RIPPENED.
BEST HAMBURG PIES.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.**Bulbs & Plants.**

SEND FOR CATALOGUE.

C. H. JOOSTEN,
IMPORTER,

3 COENTIES SLIP, NEW YORK**LILY of the VALLEY.**

(Hamburg grown, best for early forcing).

1,000.....\$ 7 50

10,000..... 72 50

50,000..... 337 50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.

Always mention the AMERICAN FLORIST when writing to advertisers.

FORCING BULBS!**WHITE ROMAN HYACINTHS.****DUTCH HYACINTHS AND TULIPS.****LILIAM HARRISII AND VON SION.****MUSHROOM SPAWN A SPECIALTY.****WEEBER & DON,****SEED MERCHANTS AND GROWERS,****114 Chambers Street, NEW YORK.**

Illustrated Catalogue on application.

*** AURATUM *****New Importation Ready.**

7 to 9-inch, per 100, \$7 50
9 to 11-inch, " 9 50

(IN NEW YORK 50 cts. PER 100 MORE.)

Roman Hyacinths, white, 11 to 12 ctns. . . \$15 00
Narcissus, Double Roman 10 00
Narcissus Poeticus 4 50
Scilla Siberica, extra large 6 50
Lilium Candidum very fine 27 50
A full line of Hyacinths, Tulips, and other Dutch Bulbs.

BOKAY GREEN

In stock from this date. We aim to be headquarters for a good quality of this salable decorative material for Fall and Winter trade. We sell the "Get There" Holly.

J. C. VAUGHAN,**New York. CHICAGO.**

12 Barclay Street. P. O. Box 688.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,**STATION E. NEW YORK.**

Mention American Florist.

ROMAN HYACINTHS.

White.....per 100, \$1.00; per 1000, \$15.00
Blue.....per 100, 1.25; per 1000, 16.00
Pink.....per 100, 2.00; per 1000, 19.00

CHINESE SACRED LILY.

Extra fine bulbs.....per basket (30 bulbs), \$1.90

CROCUS.

All colors mixed, extra fine.....\$2.00 per 1000

H G FAUST & CO. 64 & 66 N. Front St., Phila., Pa.

Roman Hyacinths.

We have a few thousand White Romans, 12 to 15 ctns. to close out.

Let us hear from you if you can use any.

Wisconsin Flower Exchange,

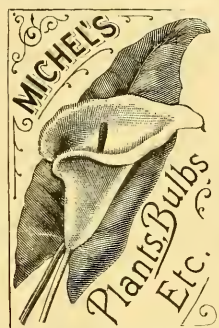
131 Mason Street, MILWAUKEE, WIS.

LILIAM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,**TARRYTOWN-ON-HUDSON, NEW YORK.**

Write for wholesale list.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

DIRECT FROM THE GROWER.**BULBS, ETC., ETC.**

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.

Watch this Space

for what we have in the near future.

S. O. STREBY,

Box 77.

UPPER SANDUSKY, O.**MARSCHUETZ & CO.,****FLORISTS' • SUPPLIES,**

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

Mention American Florist

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in his columns.

Spring Bulbs.

What are the best methods of caring for bulbs, both before and after blooming?

How early should tulips, crocus and hyacinth bulbs be planted in open ground for early spring blooming, and what is the best soil for that purpose?

When should *Lilium Harrisii* be planted for outdoor blooming? H.

1st. This question is too indefinite to be properly answered in its present form, except that it may be stated that the theory of bulb growing in general includes as requisites a light, rich soil and plenty of moisture during the period of active growth, this being followed in due season by a period of rest, during which little or no water is required.

2d. Tulips, crocus and hyacinths should be planted in the open ground during September or October in readiness for blooming the following spring, and a mulching of long manure on the bed during the winter will prove beneficial, especially in the northern states.

3d. *Lilium Harrisii* is not reliably hardy north of Philadelphia, in fact is somewhat uncertain there also, and it is therefore safer to plant them out in the spring, the operation being performed just as soon as the ground is in fit condition to work. W.

Patents Recently Granted.

Lawn sprinkler, to G. Carlson, Minneapolis, Minn.; lawn sprinkler, to D. C. Wildus, Los Angeles, Cal.; hose band, to G. Ferguson, Los Angeles, Cal.; device for applying hose clamps, to Z. L. Chadbourne, Brooklyn, N. Y.; pressing and drying plants, to R. H. Day, Phila., Pa.; combined rake and broom, to J. W. Koonce, Kingston, N. C.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS P. OUWERKERK,

P. O. Box 1845. NEW YORK.

CLEMATIS.

	Doz.	Hundred
2 Year Choice Assortment	\$5.00	\$25.00
1 " " " " " " " "	2.00	15.00
1 " " " " " " " "	1.50	10.00
Monthly	1.50	8.00
Early Snowflake, strong plants	.50	3.00
Plenty Plants, Capers, Hugs and		
Others by mail	.50	2.00

F. A. BALLER,
BLOOMINGTON, ILL.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell.

THE VERY BEST ORNAMENTAL SHRUB.

It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest Stock in America.

SPLENDID PLANTS. CHEAPER AND BETTER THAN IMPORTED.

SEE PRICES BELOW:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100;	\$40.00 per 1000
TWO YEARS, 2x2½ feet, fine.....	6.00 "	50.00 "
TWO YEARS, extra selected, 3x3½ feet, strong.....	7.00 "	60.00 "
THREE YEARS, twice transplanted, 3 feet, strong, nicely branched.....	8.00 "	70.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance. Address

THE DINGEE & CONARD CO., West Grove, Pa.

GARDENING

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language *that they can understand*. Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO.,** Monon Building, Chicago.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNs.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACAENA CANES, all sorts.

LILIUM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview
buyers or reply to any communication addressed to
him at 205 Greenwich Street, New York City.

Mention American Florist.

SURPLUS STOCK.

5 000 English Ives, from 3-in. pots, 24 inches high,
\$1.00 per 100,
5,000 English Ives, from 4-in. pots, 24 inches high,
\$.50 per 100,
500 Bouvardia Davidsonii and Alfred Neuner, from
5 inch pots, \$.50 per 100.
500 Begonia Rex and Silver Queen, nice salable
plants, from 4 inch pots, \$.50 per 100
1,000 Acorus variegata strong, 3-in. pots, \$.50 per 100.
500 Strong, healthy Carnation Peeries, 10 per 100
A number of specimen plants of Pandanus utilis,
Dion edule, Beaufortia elegans, Arcas, etc.
Prices and sizes given on application.

JOHN RECK, BRIDGEPORT, CONN.

THE SMILAX KING!

Who?
Where?

KOFFMAN,
WALDEN,
Orange Co., N. Y.

What?

SMILAX

25c. a string; 20c. a string by the hun-
dred; 18c. a string by the thousand.

When?

ALL THE YEAR AROUND.

And he pays the Express.

ENGLISH MUSHROOM SPAWN.

Large importation
of fresh stock just
received.

1 lb 15c.; 10 lbs. \$1.25;
100 lbs. \$8.00.

W. W. BARNARD & CO.,

6 & 8 N. CLARK STREET,
CHICAGO.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quar-
terly, mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

NEW AND RARE PLANTS, ORCHIDS, ETC

A large collection of Hothouse and Greenhouse
Plants carefully grown, at low rates.
ORCHIDS: A very extensive stock. East Indian,
Mexican, Central South American, etc.
Hardy Perennials, Roses, Clematis, Peonies,
Phloxes, Japanese Iris, etc.
New and Standard Trees; rare and beautiful Trees,
shrubs, Evergreens, etc. Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

1892 Discoveries.

The florist trade in America have discovered that the material used in our wheat sheaves is of the first quality, that the style and finish on these, as on everything we turn out, are the very best, that the prices are lower than ever before and that we can supply promptly unlimited quantities in every size and style.

They have made Another Discovery, namely, that the once despised Metal Wreaths can be and are made a thing of beauty in the hands of skillful artists, that they are more artistic, more desirable, and more profitable goods to handle than anything in the Memorial line ever before offered, and that they can be bought from us at the lowest prices.

Other Discoveries are that although Cape Flowers are scarce all over the world yet we can supply in any quantity and unexcelled quality, that in our stock of Florists Baskets you can always find just what you want in novelties or standard goods, that we protect the trade by refusing to sell any article at retail and that if you will send for our Catalogue you will find it full of just the kind of stock you need for your fall trade. Address

H. Bayersdorfer & Co.
56 N. 4th St.,
PHILADELPHIA, PA.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

— Exporters, Importers and Growers of —

Trees, Plants, Seeds, Bulbs.

WHOLESALE FLORISTS.

LILY OF THE VALLEY PIPS.

Selected three year old crowns of the true large-flowered variety, from consignment due in November, ex-steamers wharf at New York. Per case of 2,500, \$19.00.

MARIE LOUISE VIOLETS, strong runners, free from disease, \$30.00 per 1000. Similar Seed, per ounce, 50 cents; per pound, \$5.00.

427 & 429 Sansome Street, SAN FRANCISCO, CAL.

NURSERIES: MENLO PARK, CALIFORNIA.

INVITATION

We extend a cordial invitation to everyone in the trade to attend our Exhibition of

CHRYSANTHEMUMS

OCTOBER 27 TO NOVEMBER 9, INCLUSIVE.

This Exhibition will surpass anything of its kind ever given before, and if you wish to see the Queen of Autumn in all her glory, COME.

PITCHER & MANDA,

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

TIME TABLE OF TRAINS FROM NEW YORK.

Trains marked with an asterisk (*) are Express trains with special cars from New York to Short Hills and from Short Hills to New York. Connection can also be made at Newark for Short Hills.

FROM NEW YORK.		TO NEW YORK.	
Leave N. Y. Christopher or Barclay Streets.	Arrive Short Hills.	Leave Short Hills.	Arrive New York.
7 30 a. m.	8 34 a. m.	9 00 a. m.	10 00 a. m.
7 50 "	8 54 "	9 30 "	11 00 "
8 30 "	9 40 "	10 20 "	11 30 "
9 00 "	9 58 "	10 55 "	12 00 m.
10 10 "	11 17 "	12 14 p. m.	1 20 p. m.
11 10 "	12 19 p. m.	1 44 "	2 40 "
12 00 m.	12 58 "	3 00 "	4 10 "
1 20 p. m.	2 27 "	3 38 "	4 40 "
2 20 "	3 17 "	5 05 "	6 10 "
2 30 "	3 32 "	6 25 "	7 30 "



Fancy.



Dagger.

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a Specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000. In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

SEED.

50 lbs Fresh Paulownia Imperialis Seed.

See what Peter Henderson says of this valuable tree in Handbook of Plants. Young trees produce fine tropical effects. We have cut leaves over two feet across.

ROGERS NURSERIES, Moorestown N. J.

Asparagus Plumosus Nanus.

Fine, strong plants in 4-inch pots, \$25.00 per 100.

ERICA CAFFRA ALBA.

Fine bushy of this useful Heath, 4-in. pots, \$30 per 100. CASH WITH ORDER.

PATTEN & CO., Florists,

Box 414.

LOWELL, MASS.

Ficus Elastica.



Extra strong plants, 6-inch pots \$50.00 per hundred.

ANDORRA NURSERIES.

Wm. Warner Harper, CHESTNUT HILL, PHILA., PA. MANAGER. Mention American Florist.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery. \$6 00 per 100.

BRAUER & RICHTER, McConnelville, O.

Exhibition Notes.

Have you appointed your press committee yet? If not, do so at once and have the committee well organized and thoroughly impressed with the importance of its duties. Arrangements should be made whereby one or more members will be "on deck" every moment the exhibition is open to the public, and also on the day before the opening. If this is neglected and the reporters fail to give you a good notice you are the one that is to blame. And the doorkeeper should be posted to send every reporter to the members of the committee in waiting.

Have you appointed a committee to attend to the labelling of the plants and flowers to be exhibited. Proper and uniform labelling will add vastly to the value of the exhibition and the pleasure of the visitors. The exhibitions are given mainly to educate the public and anything that doubles the educational value of the display certainly merits your careful consideration and some little expense.

We believe that a discussion now upon the question of best methods of advertising exhibitions would be of great value to all interested. How large an amount have you appropriated for advertising? What proportion will be expended in newspaper advertising, how much in posters and for other means of attaining publicity?

The Florist's Ice Box.

The use of a window ice box, having the front and perhaps one side of plate glass while the remaining walls are the usual refrigerator construction, give the florist a chance for fine window displays in hot weather, but it is not without its disadvantages. The floor is usually of delicately colored tiles and it really seems as if nothing but a total suspension of all the laws of nature could ever keep those tiles clean. They are, naturally, always moist and every one who enters to get flowers leaves a muddy impression of his shoes on the tiles. It could not be in a more conspicuous place, and we have heard many a comment from fastidious customers regarding this. If a window ice box is used it ought, in common parlance, to be so clean that you could eat your dinner off the floor. If not, it is more than a mistake; a business so directly dependent on daintiness of taste should never allow the least suspicion of dirt or disorder.

300,000 PANSIES—EXTRA.

THE JENNINGS STRAIN of large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are fine Winter bloomers and for spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 60 cents per 100.

Any size to flowering plants, \$5.00 per 1000; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't write and ask if I can fill an order as it is only a waste of time.

Seed of this strain \$1.00 per trade packet of 2,000 seeds; \$6.00 per ounce.

4,000 CARNATIONS LEFT, of Hime's White, Tidal Wave, Mayflower, Wilder, Snow Bird, etc. Very close to close out. Write for prices.

E. B. JENNINGS.

CARNATION, VIOLET AND PANSY GROWER,
Lock Box 264, SOUTHPORT, CONN.

J. L. DILLON,
Wholesale Florist

BLOOMSBURG, PA.

WRITE FOR CIRCULARS.

Chrysanthemum Show,

UNDER THE AUSPICES OF THE NEW YORK FLORISTS' CLUB

— AT —

MADISON SQUARE GARDEN,

November 1 to 6, inclusive;

OPENING AT 2 P. M. TUESDAY, NOV. 1, 1892.

\$6,500 In Premiums. \$6,500

Besides a large number of SILVER CUPS and other Special Prizes.

SPECIAL ATTRACTIONS FOR EACH DAY OF THE SHOW.

Schedules are now ready, and may be had by addressing

J. V. GOTTSCHALK, Sec'y Madison Square Garden Flower Show,
or WILLIAM PLUMB, Manager Exposition Madison Square Garden.

The Garden will be open for the reception of exhibits Monday, October 30th,
at 6 o'clock A. M.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across,
\$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5 inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

Bay City, Mich.

GOLDEN NAMES FOR EXHIBITORS.

If you desire your Chrysanthemums correctly, neatly and handsomely named at the coming shows, send for my set of 150 labels and names in gold and dark green. They will save you time, trouble and expense, add to your exhibit and aid you in obtaining prizes.

One set, post free, Two Dollars; three sets, Five Dollars. Circular free.

T. H. SPAULDING, Orange, N. J.

CYCLAMEN PERSICUM GIGANTEUM

3-inch pots, showing bud, \$8.00 per 100.

CARNATIONS, Field grown.

LUZZIE MCGOWAN, ALICE FISHER, PORTIA

J. J. HARRISON, and others. Price \$7 per 100.

LOUISE POIRCH, fine plants, \$8.00 per 100.

Address J. G. BURROW,

FISHKILL, N. Y.

P. SEBIRE & SONS,

Nurserymen, ASSORTY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere, Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

SAN FRANCISCO, CAL.

YOKOHAMA JAPAN



H. H. BERGER & CO.

IMPORTERS

Japanese, Australian and European
Nursery-Stock Plants, Bulbs and Seeds.

Cable Address
"BERGER," S. F.

Cable Address
"BERGER," YOKOHAMA.

NINETEENTH AND FOLSOM STREETS, S. F.

P. O. ADDRESS, BOX 2232.

San Francisco, Cal.

We beg to inform the trade that we have started a Branch House in Yokohama, under the management of Mr. A. Unger. Parties wishing to buy direct from our Japan house will please address H. H. Berger & Co., Yokohama, Japan.

To the prices *loco* Yokohama are added steamer freight to San Francisco, which is \$10 to \$12 per ton of 40 cubic feet measurement, and consular invoice in Japan. Our house in San Francisco passes shipments through Custom House (dutiable articles in bond), and attends to reshipping to railroad or steamer, charging customer with costs accrued. In through shipments from Japan direct we assume *no risk whatever*, and hold ourselves in no way responsible, should goods arrive decayed or in bad order. With comparative safety we can only recommend *BULBS* and *CYCAS STEMS* for direct shipment. Bulbs ought to be repacked here, as they come from Japan packed in clay, which increases weight more than half as compared when repacked into sawdust.

On orders to be shipped as heretofore *FROM SAN FRANCISCO*, we assume all risk, guaranteeing delivery in good order to any part of the United States, accidents to carriers excepted.

We assure our friends that we will endeavor to always give them the best of service, as we have for the past fourteen years, and beg of them to continue their patronage. We book orders now for Spring delivery, of *BULBS, MAPLES, IRIS, TREE* and *HERBACEOUS PEONIES*, deciduous Magnolias, Seeds, etc.

CYCAS REVOLUTA.

Our collector leaves Yokohama November 20th, and orders should reach us as *early as possible*. Price per 1,000 pounds, \$50.00, f. o. b. Japan. Price per 10,000 pounds, \$400.00. Average freight of *Cycas*, Japan to San Francisco, \$25.00 per 1,000 pounds.

Parties preferring to avoid long delays in correspondence with Japan, address all communications relating to direct shipments from Japan, to H. H. Berger & Co., San Francisco, whence all information as to prices, shipping, etc., will be promptly given.

Prices and time of delivery of *CYCAS CIRCINALIS* given later.

H. H. BERGER & CO.

• YOU WILL ALL WANT THE • SNOW GREST DAISY

Now in the time to put them in for
Christmas blooming.

The most enterprising in the trade are taking hold of it. The 25,000 nearly all gone. Don't forget that we are headquarters and owners of the **ORIGINAL PLANT** and have the largest stock in the world and offer them now 12 for \$1.00. Sample plant with bloom for 12 1c, or 64c, stamps, post free; 100 for \$3.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy Seed and realize all that can be desired in the Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/4-oz. \$1.60; 1/2-oz. \$3.00; ounce \$5.00.

New Crop Mammoth Verbena Seed in fine mixture; plenty of white; finest crimsons and richest purples, with all the intermediate colors, in packets of 1000, seeds 6c; 5000 for \$2.25, while they last.

Also the beautiful Sweet-Scented and novel Dakota Primrose Ice King. 100 seeds 25c.

Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, Magnolia glauca, Kalmia latifolia, Xerophyllum, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs.

Wholesale Trade List FREE. Send samples of what you want.

ROGERS NURSERIES, Moorestown, N. J.

E. C. LUDWIG

wishes to inform the trade that he has no connection whatever with any other concern in the business.

E. C. LUDWIG,

217 & 220 Center of Market, ALLEGHENY, PA.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.

ASTILBE JAPONICA VAR. GRANDIFLORA.

"THE PEER AMONG FORCING PLANTS."

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA.

"The latest blooming and most fragrant of its family."

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) THE READING NURSERY, JACOB W. MANNING, Proprietor. READING, MASS.

Paeonies Cheap.

Paeonies thoroughly ripe and ready to ship. The fall is the best time to intend and plant
WE HAVE BEST STOCK IN UNITED STATES.

Send in your orders; we will ship you by freight. Fine double stock, all colors you may need.

Large clumps that will make 6' to 10 divisions, at \$25 per 100. Cash to accompany order.

FOREST GLEN FLORAL CO., 211 Lake St., CHICAGO.

WANTED.

20 Beaute de Pointvine and Francis de Arago Geraniums. Small lots accepted. State price and size of plants.

JOS. T. PHILLIPS, West Grove, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

The Florists' Protective Association.

This body continues to thrive as it deserves; there can be but one opinion as to the value of its work, and that of the most favorable character. This year two new departments have been added to their work, one for the purpose of securing information in regard to the financial standing of anyone in the trade, the other a draft and collection department. Sample drafts will be sent to members. To quote from the secretary of the organization, the advantages of this draft will be that backed, as we hope to make it, by an association of all in the trade, the person drawn on, knowing that if not paid the entire trade will be notified of it, will not be liable to commit financial suicide by refusing to pay the draft, if he can at all raise the necessary funds; and if he does not pay it, it is good evidence that he is in bad shape, and the account should be at once placed in the hands of an attorney for collection. In view of the additional work to be done by the society and the benefit to be derived from it, the annual dues of the society have been raised to five dollars.

In the secretary's report reference is made to the number of cases reported in which dead-beats order goods C. O. D., refuse to take them from the express office and then send a confederate around to the express office, who buys the goods for the express charges. All such people are looked after very closely by the F. P. A., and it is certainly worth while to get rid of them. People who are enabled to undersell honest competitors by buying on credit, with little intention of ever paying for their goods, are also looked after by the society. All information given or received is entirely confidential, especially when of a cautionary character.

A New Insect Enemy.

We recently received from Mr. H. Papworth, New Orleans, La., specimens of a brown beetle-like insect, which he tells us is becoming a serious pest to southern plant growers. It is especially destructive to palms and other foliage plants, eating out the heart of the young growth. Being unable to determine the nature of the insect we sent it to Prof. C. V. Riley, Government Entomologist. In response Prof. Riley tells us that the insect in question is *Panchlora surinamensis*, a species of cockroach, which must have been imported from the West Indies, as it does not occur normally in this country. Every effort should be made to stamp the species out of existence, either by means of an arsenical spray or by the free use of California Bulbush.



Chinese Lily Bowls.

Bulbs planted in these Bowls increase your sales 100 fold.

- No. 1. BLUE ORANGE. Extra fine porcelain. BLUE AND WHITE. Set of 3 bowls, 7, 8 1/2 & 10 in. \$1.50. No. 2. set of 3 bowls, 5, 6 and 7 inches, etc. No. 3. JAPAN PEARL. Beautifully decorated in many colors. Set of 3 bowls, 7, 8 1/2 & 10 inches, \$1.00. No. 4. set of 3 bowls, 5, 6 and 7 inches, etc. 5 per cent off on 12 sets, 10 per cent off on 50 sets. No. 5. single bowls, extra deep, 6 inches, \$1.50 per dozen.

A. BLANC & CO., Philadelphia, Pa.
Headquarters for Cacti and Electrotypes.

HEADQUARTERS for CHRISTMAS TREES!

Wisconsin Blue Spruce.

The finest of all in form and color. Well furnished, selected



trees, carefully packed in light, strong crates and bales, containing 25, 50 and 100 Trees, delivered, **Freight Charges Paid**, to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
3 to 4 feet	\$ 2.00	\$ 4.00	\$ 7.00
4 to 6 feet	3.00	6.00	10.00
6 to 8 feet	4.00	11.00	20.00
8 to 10 feet	10.00	16.00	30.00
10 to 12 feet	15.00	25.00	45.00
12 to 14 feet	20.00	35.00	60.00
14 to 16 feet	25.00	45.00	80.00

The two largest sizes are of Balsam Fir; fine selected specimens.

Special correspondence solicited on our lots. As the Western Classification of roads now exact, by a recent ruling, **ACTUAL PREPAYMENT** of all freight charges on Christmas Trees, I am obliged to assume these charges hence I am under the necessity of insisting on the following:

TERMS OF PAYMENT: At least one-half cash with order; balance 30 Days approved credit. All bills to be paid not later than January 1st, 1893. No attention will be paid to orders not complying with above terms. Orders should be in before December 1st.

W. D. BOYNTON, Shiocton, Wis.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

J. Horace McFarland Company

Have to say that their advertisement in September 22d Florist did the business, and that their capacity to December 31, 1892, is entirely booked. No more large Catalogues will be promised for delivery before January 10, 1893, and later; plenty of room for small work, though. Come along NOW for January and February. Address us for any Florists' Printing, Binding, Engraving and Electrotyping, at

MOUNT PLEASANT PRINTERY,

By a timely purchase of over 50 tons of good papers, we have protected our early customers against the sharp advance in paper.

Harrisburg, Pa.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

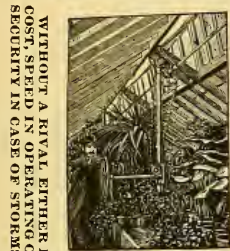
ABAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St., SAN FRANCISCO, CAL.

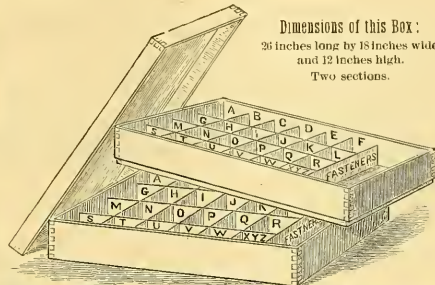
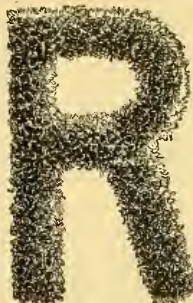
THE EVANS CHALLENGE VENTILATING APPARATUS.



WHEN WRITING FOR ESTIMATES, PLEASE GIVE FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes. (depth is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the eave of roof.
- 5th. Give the thickness and width of rafters or sash bar.

— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.



Dimensions of this Box :

36 inches long by 18 inches wide
and 12 inches high.

Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes $1\frac{1}{2}$ -in and 2-in 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St., Boston, Mass.
Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

J. D. CARMODY, ESQ., Evansville, Ind.

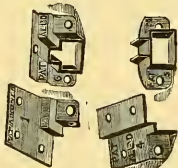
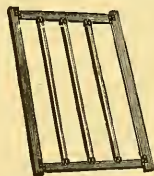
New Departure Ventilating Apparatus duly to hand and working like a charm.

The very best possible. Only wish I had them in all my houses. Send us your bill for same.

PROBST BROS., Kansas City, Mo.

AND WE MAKE IT.

J. D. CARMODY, Evansville, Ind.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.



Pat. 1882, '85, '86,
'88, '90, '91.

SPHINCTER GRIP
SPRING STEEL GALVANIZED

ARMORED

The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mfrs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL WIND ENGINE GEM STEEL TOWER



THE GEM ENGINE, when furnished with Graphic Gearings, requires no oiling, no climbing of towers, no hinged or jointed towers and practically no attention, yet is more durable than other Wind Motors that require all this and more unique in finish. The GEM TOWER combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the *Holland Standard Pumping and Geared Wind Mills*, the *Standard Vanocess* and *U. S. Solid Wheel Wind Mills*, Pumps, Tanks, Horse Hay Tools, &c. No other company offers equal inducements. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.,
CATAVIA, ILL., U. S. A.

OUR . . .

HALF-TONE

ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,

183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

STOTT'S SPRAYER



Read advertisement in next week's issue.



Kills Mildew
and
Fungus growth.
What does?

GRAPE DUST.

Sold by Seedsmen.

When writing to any of the advertisers on this page please mention the **AMERICAN FLORIST.**



FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE BENCH TILE

For testimonials, circulars, etc., address

UPLAND GREENHOUSES,

W. P. WIGHT,

MADISON, NEW JERSEY.

Used by all the leading
Growers and Horticultural
Builders.

Foreign Notes.

Anemone coronaria "The Bride" is one of the best varieties of its type; it is very strong and robust, throwing up a profusion of white flowers on good stems. The leaves are handsome, much lacinated.

To secure the constant blooming of *Viola cornuta* the seed pods should be cut off regularly. When this is done it will be a mass of fragrant yellow flowers from April to November.

Someone chionantha, a new Chinese poppy, has pure waxen white flowers with a bunch of golden anthers. The leaves are a soft yellowish green. It is a handsome garden plant.

Davallia tenuifolia Veitchii is an improvement on the older type, having a more elegant habit. It is especially qualified for basket use, the fronds being two to three feet long, drooping all round when the plant is suspended.

One of the best dwarf ornamental caladiums is *C. minus erubescens*; it seldom exceeds six inches in height, yet is robust and sturdy. The leaves are bright crimson, edged with green.

Tradescantia Regina is a new variety, having lanceolate leaves arranged in two ranks on stiff arching shoots. The leaves are handsomely variegated with bronze, silvery gray and rose. Its erect habit is very distinct from the common trailing sorts. It is a stove plant, a native of Central Peru.

A new pteris is *P. tremula variegata*. The stalks of the fronds are very short, the pinnae long and much pointed. They are creamy yellow with green veins.

Asparagus deflexus is a new variety, the main branches being from three to five feet long and pendant; it is best grown in a basket.

An interesting paper on "Tuberous Begonias" was read by Mr. Jno. Laing before the Begonia Conference of the Royal Hort. Society at Chiswick, Aug. 23.

Diefenbachia melagraris is a new variety discovered in South America last year, and sent out by Messrs. Linden, of Brussels. It is slender and graceful in habit, the foliage dark green, variegated with scattered ivory-white spots. The long petioles are almost black, closely marbled with ivory white.

Pteris nivalis is a new variegated fern. It has pinnate leaves with a white line down the center and is dwarf in habit.

CYPRESS GREEN HOUSE MATERIAL

HOT BED AND VENTILATING SASH

CLEAR

CYPRESS

SASH

BARs

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

SPHAGNUM MOSS.

Fine, clean stock: 1 Bale, \$1.00; 3 Bales, \$3.00;
10 Bales, \$11.50.

SALZER SEED CO., LA CROSSE, WIS.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE. MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

Best in the market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFLE & CO., SYRACUSE, N. Y.

BUTTED
GLASS
SASH
BARs.



Does away with all putting and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.
Shall we look your order next?
Enclose 2c. stamp for sample.

ADDRESS
LOCKLAND LUMBER CO.
A. M. STEARNS, Mgr., LOCKLAND, OHIO.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREEN-HOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & ETC.



Chicago Foot of Sangamon Street.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

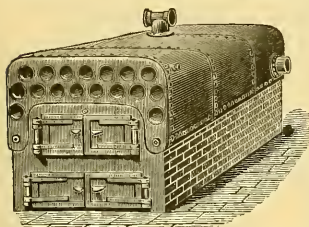
CARNATION CULTURE; BY
L. L. LAMBORN
Third Edition containing all available information on the subject **NOW READY.** Price, \$1.50 mail. Address **H. E. CHITTY,** Paterson, N. J.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

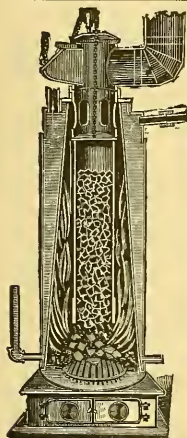
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS.

CHICAGO.**THE WILKS HEATER,**

FOR HEATING

GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**

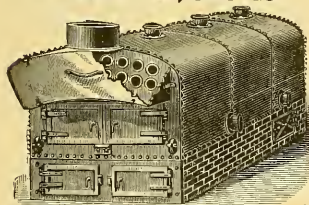
SEND FOR CATALOGUE

KROESCHELL BROS.

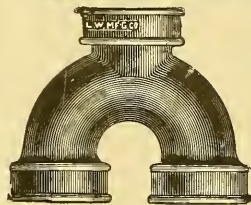
IMPROVED

Greenhouse x Boiler,

41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, sheet
plates and heads of steel, water space all around
(front, sides and back). Write for information**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.Mention the American Florist when
writing to advertisers on this page.**Greenhouse Pipe and Fittings**Large quantities of our Pipe are in use in Green-
houses throughout the West, to any of which we
refer as to its excellent quality.Pipe can be easily put together by any one, very
little instruction being needed.**GET THE BEST!**Hot-Water Heating, in its Economy and Superi-
ority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

**Do You Want**A RELIABLE
SUPPLY OF**WATER**Conservatory, Lawn, House, Garden,
Stock or any other purpose,

WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER

OR

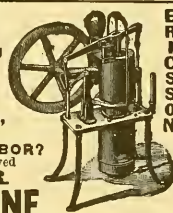
ERICSSON

**HOT-AIR
PUMPING ENGINE**

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N. Y.

Mention American Florist.

**D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.

Our Glass received the Highest Award at the Boston Convention of the S. A. F.

ESTABLISHED

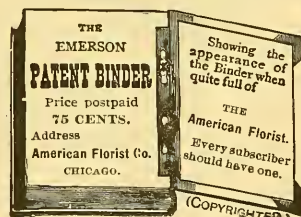
1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS335 EAST 21ST ST.

NEW YORK.



THE

EMERSON

PATENT BINDER

Price postpaid

75 CENTS.

Address

American Florist Co.

CHICAGO.

Showing the
appearance of
the Binder when
quite full of

THE

American Florist.

Every subscriber

should have one.

(COPYRIGHTED)

**THE STANDARD Ventilating
Machines**

Received best awards

at

BUFFALO, N. Y.

BOSTON, MASS.

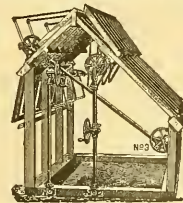
TORONTO, ONT.

Send for Catalogue

and prices.

E. HIPPARD,

Youngstown, O.

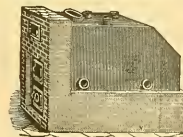
**GREEN-HOUSE
HEATING.****Meyers & Co.**

1173 S. Ninth St.,

PHILADELPHIA.

Send for catalogue

and price list.

**YOU CAN** SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.**BAY STATE HARDWARE CO.,**

272 Freeport St.,

BOSTON, MASS.

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

Index to Advertisers.

Abel C. & Co.	270	Manz J. & Co.	273
Adv. Rates, etc.	264	Maring Hart & Co.	271
Andorra Nurseries.	250	Marschütz & Co.	262
Baker F. A.	238	Meyer John C. & Co.	272
Barnard W. W. & Co.	258	Michel Plant & Bulb Co.	257
Bay State Hdw. Co.	255	Millard Bros.	265
Bayersdorfer H. & Co.	269	Miller Geo. W.	263
Berger H. H. & Co.	271	Moffatt G.	267
Blaine A. & Co.	272	Moninger Jno. C.	274
Bonsall Jos. E. & Son.	264	Moore Samuel C.	263
Boston Letter Co.	253	Moore Frank L.	263
Boynton W. D.	272	Myers & Co.	255
Brauer L. B.	272	National Hot Water	265
Brauer & Richter	261	Hunter Co.	256
Bulluck A. N.	266	Olson M.	268
Burns & Maynor.	265	Ouwertkerk P.	268
Burrow J. G.	250	Patten & Co.	262
Carman H. W.	262	Park & Catherland.	262
Carmony J. D.	273	Pierce & Coleman Co.	262
Chitty H. E.	274	Pennock C. J.	262
Cook John.	263	Pennock Saml J. S.	262
De Lamater Iron Wks.	275	Phillips Jos. T.	271
Devine's Boiler Wks.	275	Phoenix Nursery Co.	263
Dietrich J. & Co.	274	Pierston A. N.	265
Dillon J. L.	270	Pierston F. R. Co.	267
Dince & Conard Co.	258	Pletcher & Mandley	268
Dresser H. A.	258	Quaker City Mach. Wks.	271
Edwards Geo.	272	Randall A. L.	269
Edwards W. M.	262	Bending Nursery The	271
Elliot W. H.	264	Reck John.	268
Ellison Wm.	265	Roberts D. H.	265
Ellist H. & Co.	267	Roehrs Theo.	265
Field S. B.	264	Rogers Nurseries.	262
Forest Glen Floral Co.	271	Holzer A. & Sons.	267
Gardening Co. The	268	Russell J. J.	265
Gardiner J. & Co.	267	Salzer Seed Co.	274
Gibson J. C.	271	Sander & Co.	268
Gonzalez & Co.	262	Sant John.	268
Hall Ass'n.	256	Schmitz F. W. & Co.	264
Hammond Benj.	262	Schmitz D. C. & Co.	271
Hanscock Geo.	262	Schulz Jacob.	263
Hart James.	265	Scollay John A.	276
Hart Michael A.	264	Seely P. & Sons.	270
Hartford & Nichols.	264	Sheridan W. F.	265
Hereforden Mfg. Co.	276	Sherwood Hall Nur.	269
Herr Albert M.	262	Sichardt & Wadley	265
Hewes A. H. & Co.	274	Sipfle Daptel & Co.	262
Hill E. G. & Co.	265	Stanton's, wants.	262
Hopard E.	267	Smith C. A. Floral Co.	265
Hitchings & Co.	270	Smith Nathan & Son.	262
Hooker H. M. Co.	271	Spaulding P. H.	269
Huebsch Bros.	265	Snooner Wm. H.	270
Hunt E. H.	265	Steffens N.	270
Hunt M. A.	265	Scott Garden Imp. Co.	271
Hunter & Purdy	265	Streby S. O.	267
Irvine John Co.	270	Sunderbruch H. L.	264
Jeffries J. E. & Co.	272	Swayne Edw.	262
Jennings E. B.	270	Tricker Wm.	267
Joosten C. H.	267	T. S. Wind Engine & Pump Co.	272
Jordan Floral Co.	265	Vaughan J. C.	267
Kennicut Bros.	265	Walker F. & Co.	265
Koffman E.	258	Waterbury Rubber Co.	265
Kroschell Bros.	265	Weathered Thos. W.	266
Kucin A. A.	265	Weber & Jan.	267
La Roche & Stahl.	265	Weich Bros.	267
Lockland Lumber Co.	274	Whitlin Pot Co.	274
Lombard R. T.	262	Whitchend Geo. B.	262
Long Jan. J. R.	264	Wight W. P.	265
Lonsdale Edwin.	263	Wilks S. Mfg. Co.	275
Ludwig F. C.	271	Windmiller M. & Sons.	265
McBride Alex.	262	Wisconsin Flower Ex.	267
McCarthy N. F. & Co.	265	Wolfe L. Mfg. Co.	275
McFarland J. H.	264	Wood Bros.	262
McFarland J. H. Co.	272	Young J. M. & Co.	272
McKellar & Sperry.	265	Young Bros.	265
Madison Square Gardn.	270		

HOLLAND, MICH.—A. Mitting has retired from the florist business.

LYONS, IOWA.—Mrs. M. E. Eaton has added a new rose house, 20x100 feet, to her greenhouse establishment.

KEARNEY, NEB.—The Midway Floral Co. has filed articles of incorporation and will start with a capital of \$2,000.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

OUR NEW TRADE
DIRECTORY
FOR 1892

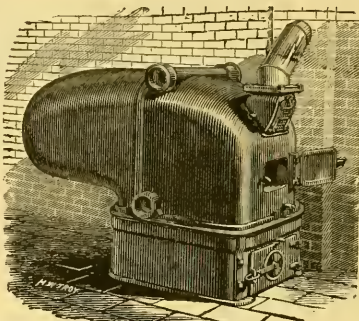
Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

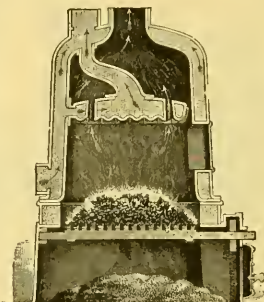
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



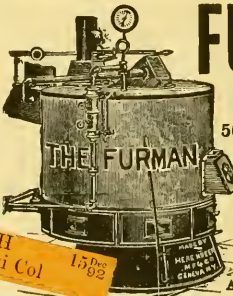
JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —
Ventilating Apparatus.

Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

Estimates of cost given, and Illustrated Catalogue furnished on application.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Stannchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilating, with plans and tables for correct hot-water work. Mailed free. Address HERENEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

THE SPENCE HEATER
HOT WATER
FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Port Hill St. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLE, Sec'y F. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, OCTOBER 27, 1892.

No. 230

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; W. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1893 are: Wm. B. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Forcing Liliun Harrisii	277
Carnations—Seasonable hints	278
—Crosses plus and minus	278
Columbian Exposition	278
—Plants from Washington Botanic Garden	279
Horticultural building (illus)	279
—World's Congress Auxiliary	279
Best early yellow chrysanthemum	279
Chicago	280
World's Fair greenhouses (illus)	280
Washington	280
New York	281
Philadelphia	282
Toronto	282
Baltimore	282
Worcester, Mass	283
House with short span to south (illus)	283
Bryn Mawr and vicinity	283
Hamilton, Ont.	283
Boston	284
News notes	284
Chrysanthemum shows	285
Catalogues received	285
The seed trade	288
Patents recently granted	290
Kerosene emulsion	292
Aristolochia or theophrasta	292
Greenhouse shade	292
Fumigating	294
Oil in greenhouse heating	294

J. F. Brown, grower to Mrs. L. B. Wells, of Helena, Montana, sends us a very fine string of smilax about nine feet long. He says that he has been very successful with this crop, and reports the flower trade as very good in that vicinity. They did not suffer from killing frost until October 13, but have already suffered from quite severe snow storms.

THE REPORT of the St. Louis park commissioner for the last fiscal year reports various improvements since the presentation of the last report, but recommends a more generous appropriation for the care of the park roads, which are far from perfect. A new lily pond has been constructed and the floral embellishments are to be very much increased by another year.

Forcing Liliun Harrisii.

This operation, though a comparatively simple one, is one of considerable interest to a multitude of growers, and during the coming winter may prove especially interesting on account of the scarcity of bulbs and also the early date of the Easter season of 1893.

Owing to the high grade of bulbs produced in that favored locality, Bermuda has been very largely depended on for the stock of L. Harrisii, but when that crop falls far below the average, as seems to be the case this season, it becomes a rather unfortunate matter for both growers and dealers, and those who have received their usual supplies of bulbs will doubtless give them all possible care.

But even in simple operations there are a few special points or details that should be observed in order to secure success, and the first of these is potting.

In the matter of soil good loam is the most suitable, for instance such a soil as would be satisfactory for rose growing, and to this should be added a liberal amount of thoroughly rotted manure, unless such an addition has already been made to the soil while in the compost heap.

The size of pots should be in proportion to the bulbs and in this connection it may be remarked that for early forcing, that is for Christmas trade or still earlier, small bulbs are much the best, those from five to seven inches in circumference being quite large enough, and if the smaller dimension be most prevalent 5-inch pots will answer very well for them.

For late crops or for Easter the larger bulbs may be used to advantage, but if grown for a general trade, both for cutting and also for pot sales, the small bulbs are preferable.

But to return to potting, it is advisable that the pots be supplied with some drainage material and that the bulbs be planted low enough to give the stems support as the latter increase in height, and it should also be remembered that the best results are attained by potting liliuns into their blooming pots at once instead of giving them a second shift.

Immediately after potting they should be put out in a cold frame and given a good watering, and at this stage of the proceedings there are found some differences of opinion among growers, some preferring to plunge the pots and then cover them over with soil, while others simply cover them with sufficient shade to prevent the pots drying out too rapidly, the latter being the method preferred by the writer, and is effected by laying sashes on the frame and then giving the glass a coat of whitewash, of course leaving abundant ventilation on the frame at all times.

In a few weeks the bulbs will be nicely rooted and the tops coming through the

soil, and they are then in condition for harder forcing if an early crop is desired, and should be brought into a house in which the temperature can be raised from time to time as required, bearing in mind that it is not entirely safe to force hard until the buds are in sight.

If grown only as an Easter crop a little different practice should be observed, from the fact that much more time can be given to the operation and cool treatment results in much finer flowers, therefore the plants may remain out in the frame as long as the weather will permit, except when Easter comes very early, and it is then safer to house them by the latter part of October.

A nice light house should be used for growing liliuns and a temperature of 55° to 60° will keep them in good condition until the flowers begin to open, when abundant ventilation should be given and a lower temperature.

The temperature of the house must be regulated in accordance with the weather, and in order to bring in the whole number of plants at a given date it is necessary to set them over frequently, so that the backward plants may be given more heat or the forward ones placed at the cool end of the house. A good rule to go by in regard to timing the crop is that the buds should all be visible when looking over the batch six weeks before Easter, this allowing time enough to harden them off before sending out.

Greenfly is about the only pest that gives much trouble during the forcing of Harrisii, but this can be eradicated by fumigating and by keeping a good supply of tobacco stems in the house to create vapor, for the latter will not do harm at any time, but fumigating may do injury after the buds become large.

To secure handsome pot plants it is essential that the lilies should not be too much crowded, for in the latter case the growth will become drawn and spindly and the lower leaves are likely to be lost.

Some liquid manure once or twice a week will also improve them after the pots are well filled with roots, or even a top dressing of short manure will prove beneficial, but this is rather unsightly unless removed before the plant is sent out.

Staking is also necessary, and this should be done in as neat a manner as possible, light stiff stakes painted green, or else southern canes, are among the neatest supports that can be used, and these small items all have some value in the eyes of a would-be customer, for no matter how well a plant may be grown the fact of its being supported by a stake like the small end of a bean pole has a discouraging effect.

The packing of L. Harrisii to send out in a wagon or to ship to a distance is a rather troublesome operation, as many growers have found to their cost, but the main point is to tie each bud or flower

up to the stake so tightly that it cannot swing around or rub against its neighbor, and for short distances of wagon delivery no packing around the flowers is needed, though each flower should be drawn up to the stake and tied with coarse cotton cord or similar soft material. For longer distances it is best to draw up the flowers with long strips of tissue paper, this being less likely to bruise the flowers, but wadding or sheet cotton should be avoided as much as possible, as it is very likely to injure the flowers.

It may also be noted in conclusion that clean pots will be appreciated by the retailer and also by his customers, and the additional cost to the grower will be but slight.

W. H. TAPLIN.



Seasonable Hints.

When it becomes necessary to start the fires do so at first moderately. If our instructions have been followed the houses will have dropped on some nights to near the freezing point and a sudden change would be injurious. But the heat may be increased gradually until a good growing temperature is reached, which should then be maintained. We consider the proper temperature to be 50° to 60° at night, and 80° or 90° during the day when the sun shines will do no harm. On cloudy days we would not let the mercury run above 65° or 70°, and 60° is probably better.

If we simply wish to hold our plants in good condition through the winter the cooler the plants are kept the better, down to freezing. But inasmuch as the production of flowers has been our main object we consider the sooner we get our money out of them the better. We can say our experience is that judicious forcing never hurt the plants, provided always that the increased temperature was accompanied with an abundance of moisture. Pans of water should be kept over the pipes and flues and the walks drenched nightly. It has also been our practice when firing hard to syringe the plants in the evening. If, however, the houses are run cool and the plants would not dry off before morning we would consider the practice highly injurious. Syringing at night under the conditions named is the best preventive of spider we have tried. The red spider makes its appearance wherever a dry current of air strikes the plants and we should endeavor to prevent rather than to cure the evil after having made headway. When the spider has secured a lodgment we have found a strong solution of sulphide of potassium persistently applied a very effective remedy. This will not hurt the plants and is a good fertilizer as well.

Avondale, Pa. W. R. SHELMEIRE.

Carnation Crosses Plus and Minus.

In a record of the production of new varieties of any species the minus sign will undoubtedly appear much more frequently than any other if the result is viewed from a purely financial standpoint. But may it not be possible by the aggregate of sufficient negative results to secure, as in mathematics, a positive quantity? I do not mean to infer that

my efforts have had any such termination, but that by presenting them and comparing with the work of others of similar kind something of value may be brought out. Let me also preface by saying I have had but two years experience to record, have no grand successes yet and no stock of any of them for sale.

So far as I know the crossing of different varieties of carnations has not been carried on in this country in the systematic and painstaking manner to be found practiced by those at work in this line in the old country. We read of opening buds before the pollen is developed, removing the anthers and enveloping the bud to keep out foreign pollen. When the pistil has reached the proper age the fertilization is done with carefully grown unmixed pollen and the flower again enclosed until the seeds are formed. The results here are perhaps more uncertain, but nevertheless frequently extremely satisfactory. It is in part this uncertainty that gives attraction to the work, but at the same time its cause lessens the deductions that otherwise might be derived. The fact that the carnations of our day are the result of innumerable crosses will undoubtedly lessen the probability of inferred results, even under the most careful system of crossing. The offspring of thoroughbred Indian parents bear invariably certain Indian characteristics of feature, form and voice. The same is true of the Chinese, Japanese and other groups of the human kind that have for ages intermarried exclusively within their own type. It is in our own race that we find the parallel with the carnation. Children of the same parents differ to the extreme in size, color of hair and eyes, in feature, voice, etc.

A new scarlet carnation is desirable. I crossed Fred Dorner with pollen from a brilliant scarlet seedling and the first plant to bloom has a flower similar in color to Edwardssii—white, mottled with rosy pink. The same laws that govern reproduction in the animal kingdom are to be found in force in the vegetable world; "like produces like," and would invariably but for "reversion" or some other opposing law. I do not know the pedigree of Fred Dorner, but my scarlet seedling was bred Wm. Swayne X Aurora. The first named being the mother plant. Wm. Swayne was from Peter Henderson and Snowdon, I believe; Aurora was from Century and Grace Wilder; farther back I can not go. So that the mottled offspring of Dorner and the scarlet seedling has on the side of the pollen parent a chance to revert to three white, two pink and one carmine progenitor. It may have had as many white grandmothers; no wonder it did not come scarlet. The plant resembles the female, the flower the color of the male parent. My experience shows about half the seedlings follow this law. Some varieties are much more liable to reproduce their characteristics than others. Some are strong as pistillate and weak as staminate parents. Portia has proven thus far a good mother in so far as reproducing her own type of growth. From the present outlook Lizzie McGowan is strong on both sides.

My seedling bench, to bloom for the first this season, contains about 500 plants, and McGowan may be seen in many places through it, the peculiar upright narrow leaved growth sometimes darkened in color or made heavier in stem by one more rank in growth. Of 19 plants from a cross of McGowan and Anna Webb (in these crosses the pistillate plant is named first) 10 of them show decided characteristics in growth of the

McGowan parent. None of them have bloomed, but the stems and roots show that some will bear flowers to concur with the law. A cross of Angelus and McGowan, only three plants, all bear the stamp of McGowan, which does not uphold the rule. These have not yet bloomed. Four plants of McGowan and Buttercup have the tall short jointed McGowan stems, three are much heavier in growth than McGowan and all are near to Buttercup in color of foliage; no blooms have opened. A lot of 14 McGowan X Hector plants show McGowan bloom in eight quite strongly, with one exception, however, the color of the foliage is similar to Hector or more nearly than it is to McGowan. C. J. PENNOCK.

Columbian Exposition.

The great event of the week was naturally the dedication, which has been anxiously looked for some time. The immense Manufacturers Building was decorated freely with flowering and foliage plants. Most of the decoration was wisely concentrated on the stage, which was finely barked with chrysanthemums, salvia, marigolds and cosmos, while palms and large ferns formed the foliage feature. The galleries were decorated with chrysanthemums, and the same flowers were used freely about the lunch tables. On the tables a very pretty effect was obtained by the use of pansies in profusion, the only foliage being bronzy oak leaves. The crowd in the building was so immense that but little could be seen of the flowers, except from some coign of vantage. About 3 o'clock in the afternoon the gates were thrown open to the uninvited general public, who came in like the tide in the Bay of Fundy, a solid moving mass, against which it was impossible to struggle. It was a crowd with a thirst for souvenirs, apparently, for they literally mowed off the floral decorations, carrying off everything that was not too big to be handled. Many of the plants were really needed for other decorations on Saturday, but the people gathered there all in with perfect impartiality. Some very fine chrysanthemums were among them, these flowers showing well along the galleries.

The plants for the decoration of the main avenue on the stage between the rear platforms were entirely from the state of Pennsylvania. In the extreme foreground were two magnificent specimens of *Cycas revoluta* from "Wootton," the residence of Mr. G. W. Childs. At the rear of this avenue, at the highest point of the plant decoration were two immense palms, each fifteen feet high, with a spread of sixteen feet—one a *Latania borbonica* from Mr. Childs, the companion plant, from A. J. Drexel, of Philadelphia, was *Livingstonia rotundifolia*, a rare and beautiful plant. Other fine plants used were from Mrs. Chas. Wheeler of Bryn Mawr. From Girard College were fine examples of *Kentia Belmoreana* and brilliant crotons in variety. In front of the palms and ferns was a row of salvia, and an outer row of yellow cosmos, with a wide border of oak leaves. This decoration was all superintended by Robt. Craig. Behind all this was an arch of oak branches thirty-five feet high, with a group of palms and decorative plants at each pillar. The long dining tables, about 600 feet, had down the center numerous plants of *Grevillea robusta*, the graceful "Silk Oak," alternating with plants of *Slm. Crozy cannas*, radiant with brilliant bloom—the main feature, however, was the tracery of oak leaves



HORTICULTURAL BUILDING AT THE WORLD'S COLUMBIAN EXPOSITION. [FROM A PHOTOGRAPH.]

and pansies, arranged in colors, 15,000 blossoms being used.

The crowd at the ceremonies was very large, a good many prominent members of the trade being present.

On Saturday the architects of all the various buildings held a meeting in Horticultural Hall, a section in the southwest wing being arranged for them. The speaker's desk stood behind a bank of cosmos and chrysanthemums, at one end was a tall *Dicksonia antarctica*, while by its side was a huge Corinthian pillar, showing the foliated capital, so strikingly suggestive of the tree fern. Garlands of oak leaves were on the walls and the window sills were draped with alternanthera. Groups of plants stood along the walls.

Several of the buildings were dedicated on this day, New York being among them. At this building the stage reserved for speakers was very handsomely decorated, being grouped with palms, chrysanthemums, eucalyptus, cosmos and other plants. At one side stood a large brugmansia, bearing a quantity of huge trumpet-shaped flowers.

The Penna. building was entirely finished by dedication day (and paid for), the grounds being sodded and the piazzas decorated with palms, bay trees, etc. Pennsylvania has reason to plume itself upon its horticultural exhibit. The plants coming from that state, at the most conservative computation, foot up a total of \$20,000. The plants were all in good order and there are many specimens which could not possibly be duplicated in this country. Mention has already been made of the grand specimens from Allegheny City, and the plants from private places are of equal note. A plant of *Pritchardia grandis* (syn. *Licuala grandis*) from Mr. Drexel is one of the finest known in cultivation; undoubtedly the finest in this country. Another rare palm to be seen here is a fine *Cocos australis* from Prof. Sargeant's place at Brookline, Mass.

A quantity of cacti have been received from the Washington Botanic Garden

and from other sources. The shipment of plants will soon be at an end, as we can not expect favorable weather much longer. Some of the plants received were in rather poor order owing to imperfect packing or delayed delivery, but in the majority of cases they travelled well. All shipments ought to be made by express; it is a sad error to send them by freight.

The collection of ficus is very large, including all well known and some little known varieties.

Plants from the Washington Botanic Garden, contributed to the Columbian Exposition.

In this group of plants the ficus is finely represented, the list including many plants from ten to fifteen feet high. Among them are *Ficus rubiginosa*, *F. Brassii*, *F. comosa*, *F. macrophylla*, *F. Chauvierii*, *F. Rozeii*, *F. acuminata*, *F. stipulata* (syn. *F. scandens*), and *F. lucida*. Altogether the lot includes some sixty plants, and they would go a long way towards filling a good-sized house. They are mostly planted in large tubs. There are several interesting euphorbias, jatrophas, and many other showy plants rarely seen in a general collection. *Cibotium Barometz* is a fern formerly known as the "Tartarian lamb." Struys, who traveled through Russia and Tartary in the middle of the 17th century, states that he found it growing on the salt plains on the west side of the Volga. Barometz, in the language of Muscovy, signifies a little lamb. The natives say that the wolves are very fond of this vegetable lamb and that they devour them because they resemble the taste of the animal whose name they bear. This is a fine specimen. Another fine plant is *Araucaria Cunninghamii*, the Morton Bay Pine; this is a specimen twenty feet high. *Eriodendron anfractuosum* is another pretty specimen—the cotton tree of South America, remarkable both for the soft down with which it is covered, and the extreme lightness of its timber. The economic plants form another inter-

esting feature; altogether the Washington group forms a very interesting section, containing some of Mr. Smith's most attractive plants.

The World's Congress Auxiliary of the World's Columbian Exposition, Chicago.

Department of Agriculture; Division of Horticulture.

Local committee.—J. C. Vaughan, chairman; E. G. Hill, secretary; J. M. Samuels, John Thorpe, S. M. Emery, W. W. Tracy, Prof. Wm. Trelease.

Committee of American Seed Trade Association.—W. Atlee Burpee, chairman; Albert Dickinson, Richard Fritschner, John Fottler, Jr., C. C. Morse, John A. Bruce.

Committee of Society of American Florists.—E. G. Hill, chairman; W. F. Dreer, W. R. Smith, W. A. Manda, E. Asmus, James Dean, H. H. Berger, J. T. Temple, W. H. Chadwick.

The date for the World's Horticultural Congress at Chicago has been fixed beginning August 16, 1893, and continuing four days.

Horticulturists throughout the world are cordially invited to so arrange their visit to the World's Columbian Exposition that they may be with us at the above date. The Society of American Florists and the American Seed Trade Association and the American Pomological Society will hold their annual meeting during the same months. We therefore anticipate the largest possible attendance. Correspondence may be addressed to the chairman of the Local Executive Committee as above.

The Best Early Yellow Chrysanthemum.

Hitherto *Gloriosum* has been the best early yellow for cut flowers, but now it is to be superseded, and that quite soon.

The new candidate for public favor was in bloom October 15. A bed of it at Robert Craig's, containing about 600 plants, each plant averaging about four blooms,

presented a very beautiful appearance. The name of this meritorious variety is Mrs. J. G. Whilldin. It is one of Thomas Monahan's seedlings and it won the "Whilldin Cup" at Philadelphia in 1890 as a pot plant.

In color it is a shade lighter than *Gloriosum*, a clear and pleasing yellow. In form it is similar to the white *Jessica*.

Eldorado, another of Mr. Monahan's seedlings, is also early, though not so early as Whilldin, and it has a somewhat delicate constitution. It is, however, one of the most beautiful colored varieties extant, a magnificent bright yellow, and it is certainly worthy of further trial. E. L.

Chicago.

The week of the Columbian celebrations brought a good deal of work to the florists, opening the season very briskly. The opening festivity of the week was the ball at the Auditorium, where the decorations were under the charge of P. J. Hanswirth and Jos. Curran. The main hall formed the ball room, the banquet hall on the sixth floor being reserved as a supper room for the distinguished guests, while others supped in the Studebaker building adjoining. The space to be decorated was very large, and great praise is due to those having the matter in charge for the manner in which they carried out their designs.

The ball room, which occupied the whole space ordinarily used as a theater, was beautifully draped around every tier of boxes with wild smilax looped between each box with broad silk sashes of the Spanish colors, deep red and yellow. The music stand was screened with palms and bay trees; over the organ and stage boxes were palmetto leaves and smilax. In every case where color was used the red and yellow was predominant.

The Auditorium banquet hall was extremely handsome. At the extreme end was the dais where guests of honor were to be seated; this was banked with palms and chrysanthemums, with the national colors in brilliant electric lights behind. The capital of each pillar along the wall was decorated with a graceful bunch of chrysanthemums, red or yellow. Two vases of flowers were on each table, and groups of decorative plants, chiefly palms and bays, were arranged about the room. The large supper room in the Studebaker building was finely decorated with groups of ornamental plants along the walls, the floral arrangements consisting of plaques of red *gadiolus* and yellow *dahlias*. Vases of loose roses appeared on each table. Forty-one bouquets of roses, each tied with a broad sash of red and yellow ribbon, were presented to ladies among the distinguished guests.

Another event of the week was the dinner given by the Fellowship Club to distinguished guests present at the dedication. The decoration was arranged by Jos. Curran. Choice roses appeared on the tables, Beauties predominating, while the room was further decorated with fine chrysanthemums and cosmos.

It is doubtful whether the work brought quite as much work to the florists as was expected. There was about one very busy day for all, but while a few of the decorating florists were constantly employed the general public was too busy seeing the sights to buy flowers. Business seems likely to be better now the celebration is over, rather than during the festive season.

Flowers are very good now; roses are both good and plentiful. Carnations are

scarce and much better in quality than they were. Excepting roses flowers are not over plentiful; averaging them all round the supply and demand are just about even. Violets are quite scarce and in good demand. A good many outside orders are coming in for all classes of flowers. Chrysanthemums sell with a rush when good. Outside flowers, grown without any thinning, do not sell, but there is no lack of sale for really good flowers; the market for them is far better than in former years.

Among the visiting members of the trade present in the city during dedication week were Messrs. W. K. Smith, Washington; Robert Craig and wife and Edwin Lonsdale, Philadelphia; E. G. Hill and wife, Richmond, Ind.; J. Coates Walker (Commissioner of Hort. for Penna.) and wife; H. B. Beatty, Oil City, Pa.; Wm. Hamilton, Allegheny City, Pa.; J. D. Carmody and wife, Evansville, Ind.; James Dean, New York; John Chambers and Geo. Vair, Toronto, Ont.; W. J. Stewart, Boston; C. B. Whitnall, Milwaukee; J. T. Temple, Davenport, Ia.; H. M. Sanborn, San Francisco; W. H. Moon, Morrisville, Pa.; L. G. Bragg, Kalamazoo, Mich.; D. B. Long, Buffalo; J. M. Hughes, Philadelphia; O. R. Demmler, Eau Claire, Wis.; L. L. May, St. Paul; I. N. Kramer, Marion, Iowa; Prof. Emory E. Smith, Palo Alto, Cal.

At a meeting of the Cut Flower Exchange on Saturday, Oct. 22, the following gentlemen were elected by the stockholders to act as directors: O. P. Bassett, J. T. Anthony, Peter Reinberg, P. J. Haaswirth, P. Blaumeiser, Geo. Klehm, E. Weinbocher, F. Stielow, F. Kennicott, Aug. Dressel and T. J. Corbrey. The directors held a meeting on Tuesday, Oct. 25, at which they elected the following gentlemen as officers: President, O. P. Bassett; first vice-president, J. T. Anthony; second vice-president, Peter Reinberg; secretary, Geo. Klehm; treasurer, E. Weinbocher; manager, T. F. Keenan.

The World's Fair Greenhouses.

The accompanying illustration gives an excellent view of the propagating and forwarding houses in the rear of the Horticultural Building. The roomy shed in the center contains potting and work rooms, and also boiler space for the large building as well as for the connecting houses. Just behind this range of houses runs the Illinois Central tracks; in fact the railway is so unpleasantly near that on several occasions the projecting freight cars have torn off some of the wood work.

The shed has looked very attractive all summer, being prettily screened by wild cucumber vines. Two large circular beds in front were filled with large and tall growing plants, among them *cannas*, *crapemyrtle*, *cassias* and other showy things. The long beds at either side were used for trial purposes; at the right were tuberous *begonias*, *phlox* and other showy flowers; at the left *petunias* and *cosmos*. The large grass plots visible in the foreground are immediately back of the large building; a few conifers are dotted about the edges.

The houses themselves are six in number, size about 150x30; they are of the most modern construction, with all conveniences. The range at the left of the illustration contains most of the ornamental leaved plants and the *primulas*. At the right are the chrysanthemum houses and the same range containing *solanums* and a variety of cool house stuff. The large specimens are all housed in the main building.

Washington.

The weather the past few weeks has been delightful, cool, clear, and a few mornings white frosts were seen. *Coleus* and other tender soft wooded plants suffered and are blackened.

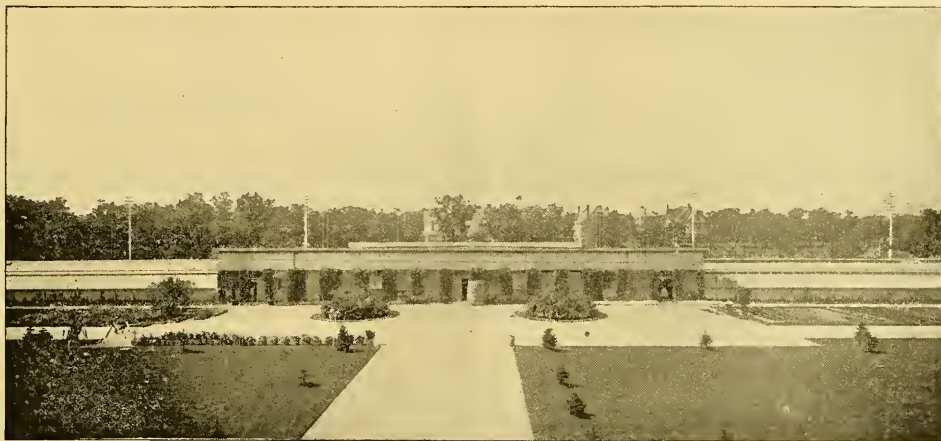
Mr. George H. Brown, the well known public gardener, has had his large force busy the past three or four weeks getting in their tender plants, palms, *crotons*, *pandanus* and all subtropical plants which added so much to beautify our squares and reservations; they now have all these plants in their winter quarters, and most of the beds which a few weeks ago were so attractive with *coleus*, *alternanthera*, etc., are now a mass of fine healthy chrysanthemums which were grown all summer in pots for this purpose; they are finely set in well developed buds and from the present appearance will soon present an attractive display; Mr. Brown has some of the finest varieties of these very popular flowers and expects to treat the public to something out of the usual line in the way of chrysanthemums outdoors.

The G. A. R. corps badges in front of the pension office still attract much attention and some of them are just at their best; the frosts don't seem to have done them any injury, the majority of them being sheltered on the north by the large building.

Decorations at the fall openings of the leading merchants in Washington are getting to be a business in itself. The handsome store of Messrs. Craig and Harding, furniture dealers, was elaborately decorated with palms, roses and smilax during the past week; the walls and ceilings were tastefully festooned with smilax, as were also the windows and chandeliers. Palms were arranged about the room to present the best effect. Over 3,000 roses were used in the decorations. The novel feature of this fall opening was, each lady who visited the store on the opening day was presented with a few roses and smilax on leaving the establishment. Gude Bros. were the artistic decorators on this occasion.

Trade is slowly picking up among the florists. Several very handsome wedding decorations were made last week, and orders for other large ones are already booked. The season promises to be a gay one, and there will be plenty for all the "decorating florists" to do. Flowers are plentiful and quality very fair. Roses are bringing from \$1 to \$3 per dozen good buds. The markets are stocked with *cosmos*, selling for 25 cents per bunch, each containing about 20 stalks, very fine.

Two fine houses are being erected at the Executive Mansion, one for roses, the other for *camellias*, *azaleas*, etc. All their plants are housed for the winter; they are looking remarkably fine and healthy. Mr. Henry Pfister, the head gardener in charge, takes special pride in his orchids, and well he might, for they would be a credit to any gardener. Mrs. Harrison took a deep interest in this beautiful class of plants and when she was enjoying good health she delighted in having them brought to her room when in flower that she might copy them from nature. She had a number of very fine paintings of them, all her own work, and she was justly proud of them. Their plants have made a fine growth this season and are very vigorous. In going through the conservatory the other day Mr. Pfister called my attention to several specimens in full flower, among them a fine plant of *Cattleya Alexandria* with six flowers six inches in diameter. The petals are of



GREENHOUSES AT THE WORLD'S COLUMBIAN EXPOSITION.

a warm rose and crimson; on opening they are suffused with an old rose and bronze hue, lip broad, of velvety substance and amethyst crimson in color. Very good for a plant only 2 years old. *Cattleya Sanderiana* or *Warszewiczii*, having two spikes each containing eight flowers, very large sepals and petals purplish white, lips rich crimson. *Cattleya Bowringiana*, having seven spikes of flowers containing 59 blooms of a rich purple, about 3 inches in diameter; front of lip deep purple with transverse maroon band, behind which the tube is whitish. They have a number of baskets about 12 inches in diameter, filled with *Adiantum cucullatum*, very finely grown, suspended from the roof over the walks, producing a fine effect upon entering the house.

The markets during the past few weeks have begun to pick up, and a fair display of winter flowers is to be seen on the stands and in the windows. *Cosmos* is past its best. Good carnations are scarce as yet. Violets are coming in quantity; quality fair for this season, selling rapidly at \$1 per hundred. Quality of roses improving, prices only fair; the demand not as good as might be. *Chrysanthemums* begin to occupy more room on the flower stands, some very fine ones are beginning to be seen. Prices said to be good and the demand equal to the supply. Palms, rubbers, dracaenas, pandanus, aspidistra, etc., for window decorations are looking firm and healthy, though not much sale for them as yet. Trade reported on the increase. The demand for funeral flowers seems to be increasing, more of them being used on such occasions. Quite a rivalry seems to exist between the florists as to who can get up the most original and finest piece. It is quite the rage just now to make pieces representing the trade or business followed by the deceased, and some very handsome and unique designs are the result.

At the funeral, a few days ago, of the late Geo. A. McIlhenny, president and engineer of the Washington Gas Company, were seen some very handsome designs; probably the greatest quantity of flowers ever used at a single funeral in this city, of a private citizen. Noticeable among them was a broken column six feet high of *Bride roses* and maiden hair

ferns, a most beautiful piece, in which could be seen the handiwork of Mr. C. F. Hale. A handsome gates-ajar five feet wide composed of *Perle roses* and violets, which was a credit to Mr. George Glorious; Messrs. C. Strauss & Co. made a gasometer six feet in diameter, with columns composed of *Perle* and *Bride roses* and white carnations, trimmed with asparagus and smilax. These pieces filled the large armory room. Gude Bros., Fisher and J. H. Small & Sons had a busy time filling orders for pieces. Never was there such a profusion used at a funeral here before. This was probably due to the great popularity of the deceased, who was one of Washington's public spirited citizens, well and widely known.

During a recent visit to the large and long established nursery and greenhouses of Mr. John Saul on Seventh street road, I noticed a house about 60 feet long, the center bench of which was filled with *Lælia anceps*, showing flower stalks, over 2,000 making their appearance, looking fine and healthy; his orchids and stove plants generally are in excellent condition; some nice plants of the rediscovered *Dendrobium phalaenopsis* Schrodæra in bloom, attracted my attention, they are really fine pieces of this exquisite dendrobium. His houses show no signs of the very heavy hail storm which visited them a few weeks ago, they have all been put in thorough repair and are looking clean and new.

The Florist Club held its usual monthly meeting Wednesday evening, October 19, at the Arion Hall. Mr. Robert Bowdler presided. The price of admission to the *Chrysanthemum Exhibition* raised quite an animated discussion, some advocating 50 cents the first day and 25 cents the second and third days; it was eventually decided to make a uniform charge of 25 cents for adults and 10 cents for children under twelve years. A much larger sum than usual was appropriated for advertising. The other business transacted was of a routine character.

C. LESLIE REYNOLDS.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

New York.

"I have never before at this time of the year seen things as dull as they are at present. The market is perfectly glutted with everything, with the exception of smilax." So said a prominent dealer in reply to the question, "How's trade?" and his remark is no exaggeration. Even the finest violets go begging. *Cosmos* is coming in by the barrel. Fine roses have been sold as low as \$4 per thousand on several days during the past week. The first *chrysanthemums* that came in sold for \$3 per dozen, very fine ones for \$4, but it took only a few days to knock these prices completely out. Fine *Glorium* can be bought for \$5 per 100, \$8 being considered a high price. There are some few varieties that sell for \$20 to \$25 and from present indications it looks as though these figures are as high as they will reach this year. Fine *Jessicas* go slowly at \$2 per dozen, Ivory at \$1.50 and the smaller varieties can scarcely be got rid of. Instead of being sold by the hundred they are simply unloaded by the armful. There are some extraordinary *chrysanthemums* coming in with stems four to six feet long and the owners cannot be blamed for expecting \$5 per dozen for them, but the price cannot be obtained. What makes matters worse at present is that with the number of roses coming in the weather is so warm that it is very hard to keep them, as they are so soft. Carnations are having bad luck also and thousands actually find their way into the dump cart daily. There has been a good deal of theatrical work lately, which of course comes in very handy, as flowers are so plentiful, and every retailer can give a customer a big show for his money. Mr. Seallen had on Monday several large baskets for the Broadway theatre, one in particular which contained over 300 Beauties, attracting such a crowd while on exhibition in his window that the sidewalk was pretty well blocked up. The demand for large roses has dropped off considerably on account of the cheapness and abundance of *chrysanthemums* and this will probably continue for the next three or four weeks.

Preparations for the great exhibition

are progressing satisfactorily. Everything points to one of the most remarkable shows that we have ever had here, and it is amusing to see how all the "big moguls" are flitting from one place to another, a sort of "just-passing-and-dropped-in-you-know" look about them, but every one anxious to see how he compares with his competitor. From all appearances competition in every class will be very keen.

Young Bros. have added an important department to their business and have become selling agents for Pitcher & Manda and other large growers, special attention being given to palms and other decorative foliage plants and orchids. This department will be managed by Mr. Wm. Plumb, manager of the Madison Garden flower shows, than whom a better man for the position could not be selected.

The Florist Club committee has finally succeeded in the quest for rooms and have secured a magnificent parlor floor at 20 West 27th street, a few doors from Broadway.

Mr. R. C. Patterson and his foreman, Mr. S. McClements, have been in town several days the past week.

Philadelphia.

The storm has set in for good and all about town chrysanthemums are to be seen piled up in the windows and doors of flower stores, looking as if they might have drifted there. The fakir, too, has been out with his broom and little heaps are to be seen gathered up on the street corners and in front of vacant stores, waiting to be melted along with the rest. Robert Craig had the first large flowers, having Mrs. Whildin in quantity on the 19th. This variety has proved itself to be earlier and better than *Gloriosum*; it is a fine large flower with a strong stem. Jessica came next, Joseph Heacock having remarkably fine flowers of this, and even better specimens of Ivory, which followed a day or two later. Ivory is king of the whites, and the flowers sent in by Mr. Heacock were fit for exhibition anywhere; his Roballions were also very fine. Eldorado attracts a great deal of attention; it is the best yellow in point of color and of good size; the stems are not long, though very heavy, the plant being a slow grower. Wm. K. Harris has a house of this variety and the market to himself, as none of the other growers seem to have planted it.

Advance is a fine long-stemmed pink, shrimp pink, some call it. We have heard of dead white, and presume this must be dead pink, as it is called after boiled shrimps. The flowers present anything but a dead appearance, however, and sell well. When Mr. Harris found it among his seedlings he thought it was in advance of anything of the kind and so named it. Evans Brothers also have some very fine flowers. It certainly looks as if there was going to be a glut next week. Prices have held up very well, considering the quantity about. The best flowers bring from 20 to 25 and the lower grades, according to quality, sell down to as low as \$1 a hundred. They have not hurt the sale of roses to any great extent as yet, prices for these remaining about the same. Carations are a little higher, being 1.25 to 1.50 for the best.

Business has been quite brisk, but there has been plenty of flowers with which to do more, the cellars and ice boxes being pretty well packed on Saturday night. There will be a number of weddings the first week in November and the prospects for a good season are bright.

At the last meeting of the Penna. Hort. Society nominations for officers to serve the ensuing year were made, the old board being continued. The final arrangements for the coming show were perfected. Everything points to an exhibition complete in every respect and better than any of its predecessors.

The managers of the Chrysanthemum Show are anxious that intending exhibitors should make their entries as soon as possible; time is now growing short, as the show opens November 7.

The Delawares and Schuylkills played a close game of ten pins at the alleys last Thursday night. The Schuylkills, Capt. Craig's team, won by 51 pins. They did not make such a large score as in the previous match, but the Delawares were not in good trim and did not put up the game they are capable of doing. K.

Toronto.

New florists' stores are springing up like mushrooms just now and all on the same street too. Mr. John Cotterill, of Deer Park, has opened up at the north end and displays some good stuff in his window; Mr. Henry Dale, wholesale grower of Brampton, has started a retail store pretty well down town which is to be conducted by his brother, Mr. E. Dale; and Mr. H. Palmer has taken a stand under the new Odd Fellows' building, about half way between the other two. Florists will soon be as thick as doctors and lawyers at this rate, but unfortunately they have not the same facilities for bleeding their clients.

Last Tuesday's meeting of the Gardeners' and Florists' Association was by all odds the liveliest on record. By the crowd of members present when the chairman took his seat it was quite apparent that something unusual was in the wind. The report of the World's Fair committee was disposed of in double quick time and the report of the executive committee containing about 20 recommendations ament the coming chrysanthemum show was received and adopted with hardly a murmur. The notice of motion to change one of the clauses of the constitution then came up and after various explanations and discussions pro and con was voted down—18 ayes and 32 nays (moral: don't try tinkering your constitution).

After some other routine business the question box was opened and the best manure for growing plants in pots was discussed. The general opinion seemed to be that well rotted barn yard manure produced the best results with the least risk and expense. Mr. Thos. Manton gave a list of the best 24 hardy roses among which he named La France. Mr. Gilchrist said that hybrid teas were always winter killed with him, but several other members had as good success with it as with any of the H. P.'s. Mr. McLeish said that some time ago his employer bought 12 roses from a first class nursery and La France was the only one of the lot that lived.

Then Mr. A. Westwood dropped a bombshell into the meeting in the shape of this question, "Is it beneficial to the retail trade for institutions supported by public monies to supply plants and cut flowers free of charge?" It was evident, owing to the crude way in which the question was worded, that it was aimed at somebody (everybody knew who that somebody was) or there would have been no cause for asking it. In the ordinary course of business it should have been left over for reply until the next regular meet-

ing, but the members showed their good sense in asking to have the matter threshed out at once rather than let it go on disturbing their peace of mind for another month and so the president appointed five or six florists to reply to it then and there. None of those in charge of public institutions denied having given away plants and flowers to a limited extent nor did they express any repentance for having done so, in fact there seemed to be an impression that they intended to keep up the practice complained of, one or two saying that they had given away far more to florists than to private parties. Well! the florists replied and with one or two small exceptions (which were afterwards satisfactorily explained) had nothing to complain of. Mr. Thos. Manton in his reply positively commended the practice saying that it had actually done the florists good in creating a love of flowers and a demand for them where there was neither before. During the discussion considerable heat was displayed by some of the members and various little recriminatory episodes took place, but after it was over everybody was agreed that open meeting was the right place in which to talk these matters over and not potting sheds, etc., where the person or persons complained of could not make any explanations and the member who asked the question was commended for his courage in facing the matter out before the whole association. This affair may appear petty to outsiders, but it has been rankling in the minds of a few here for several years. Now a beginning has been made it is to be hoped that any member having a grievance will bring it up in meeting for explanation and rectification. Members of other clubs may follow suit with advantage. The meeting adjourned at 10:55 p. m.

Mr. W. J. Stewart, secretary of the S. A. F., favored this city with his presence for a short space last week en route for the Chicago festivities; needless to say that those on whom he called were very glad to see him and regretted that his stay was so short.

Mr. John Chambers, president of the Toronto G. and F. Association also left for Chicago on Tuesday last.

The city authorities and the Provincial Government have given permission for the specimen plants in the various institutions belonging to them to be taken to the World's Fair next year. The private owners of plants move slower and have not been heard from yet. E.

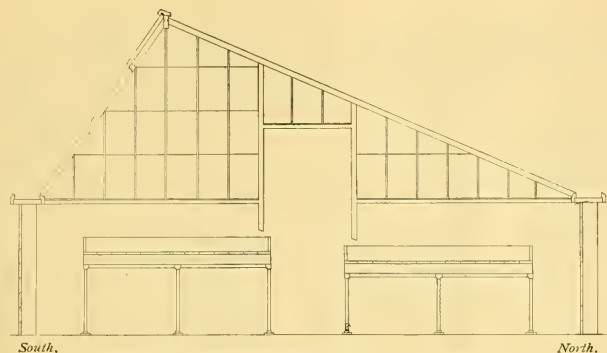
Baltimore.

The "mums" are out in force at last and are to be seen everywhere, and had at all prices; from twenty-five cents a blossom down to eighty cents for a dozen bunches, each bunch containing about twenty-five blooms. Most of the florists have their windows and stores decorated with them, Halliday Bros. having nothing in their windows recently but clusters of different varieties, set off with sprays of oak leaves.

As might be expected with such a flood of chrysanthemums, roses are at a discount and are not selling nearly so freely as a few days ago, though prices are down to three cents for very good buds of Bride, Perle, Cusin, Watteville and Meteor. Mermet and La France must be very nice to bring four cents.

Carnations and bouvardia are becoming more plentiful, are much better in quality but are in less demand proportionately than roses.

The great Columbus Day parade which



FORCING HOUSE WITH SHORT SPAN TO THE SOUTH.

mustered all the brass bands, most of the secret societies, and no inconsiderable number of mere citizens, was expected by many to live up sales by the number of sight-seers and pleasure seekers attracted to the city, but, though a great success as a parade, it seems to have been a failure as far as making business for the florists was concerned, as not one has been seen who thought his sales increased on that day.

Messrs. Gallo way & Cristie have opened at the same place as last winter, at 1910 W. Charles. Mr. Julius Tischinger will open, not at his old location on Madison avenue, but in the store occupied by Campbell & Bankerd last winter, 341 N. Charles street, which he has rented and is fixing up very nicely.

The club had an extra meeting Monday night to decide some matters connected with the coming exhibition. The attendance was surprisingly large and to say that the room was crowded would be putting it very mildly. The committee must be gratified at the interest manifested in their work.

One thing discussed that deserves special mention was the plan for a competitive trial of skill in putting up cut flowers in designs. After a very interesting debate it was adopted and is as follows: Each competitor will be furnished with a design, foil, moss, wire, picks and flowers, as nearly like each other competitors' as possible, precisely similar if it can be; he will then retire and make up the piece in private, and the pieces of all the competitors will then be staged together, and the one receiving the approval of the judges will be awarded a certificate of honor. As finally adopted it seems to meet the unanimous approval of the club and several members expressed a determination to compete.

The Charles street florists will all have electric light soon. Mr. W. J. Halliday has a complete and beautiful system in his store at No. 316.

Mr. McNab says one reason why his buds are so fine is that he uses nitrate of soda in solution regularly.

A different place for the show every year—the cyclorama building this time.

MACK.

Worcester, Mass.

The last regular show of the Horticultural Society was held October 13 and it was one of the most successful shows of the season. There was a large number of entries in all the classes and the attendance was also very good, the weather

being all that could be desired. As one entered the hall the sight was magnificent, the stands of cut flowers glowing with color, and towering over these were noble specimens of the kentia and areca, while clustering around the pots were beautiful ferns and mosses. The exhibits without exception were fine, but there was nothing new or novel worthy of notice.

Trade is booming right along, decorations for weddings and receptions, funeral work and the regular cut flower trade keeping everybody hustling; the supply is fully sufficient and prices hold strong.

Fred B. Madans has opened a store on Pleasant street. Fred has the best wishes of everybody in the trade.

Chrysanthemums are coming in thick and fast and are improving the appearance of the show windows immensely. The flowers are of magnificent size, with long stems and clean dark foliage, and the way they sell demonstrates that "mums" are still growing in popular favor. Gloriosa, Ivory and M. Boyer are the favorites just now. Violets are coming rather poor and a short supply; we are having a very warm fall, impossible to keep the temperature of the houses below 50°.

SEEDLING.

Forcing House With Short Span to the South.

We present herewith a sectional view of one of the new houses recently erected by Mr. Geo. W. Miller at his new place in Hinsdale, Ill., engraved from a drawing made for us at our request by Mr. John C. Moninger, Chicago, the builder of the houses, the house illustrated being 18 feet wide.

The principle upon which these houses are constructed is to present the sheet of glass on the south side of the house as nearly as possible at right angles with the sun during the winter season when the source of light hangs low in the horizon, it being believed that by such direct action the rays of the sun are intensified. And further to present as much of a slant as possible to the sun when the latter is high in the heavens (as in late spring and summer) that the heat rays may be deflected and a goodly proportion kept from entering the house.

It is held that with the style of roof shown in the engraving the direct rays of the sun reach every part of the house during the months of November, December and January, while during late spring and summer a large share of the rays are

deflected by the slanting angles there presented.

As a further advantage it is stated that any number of such houses can be built close together on a level surface, and one will not shade the other even during the winter months when the sun hangs lowest.

As will be noted there are three paths in the house, one at each side and another in the center. Were the south bench set close against the wall it would be shaded to some extent. It is held that the north bench can be placed six inches lower than the south bench and still get the full benefit of the sun's rays.

It should be added that these houses are not wholly an experiment, as similarly constructed ones have been in operation near Milwaukee for two seasons, and in them have been grown more profitable crops of roses than were ever before produced in that section.

Bryn Mawr and Vicinity.

In the report of the Wayne Horticultural Society's tall show credit was wrongly given for the best all-round exhibit; this prize was taken by Jno. Curwen, Jr. This society is very flourishing, having over 200 members enrolled. It will hold a spring exhibition in the latter part of March.

Mr. Robert Craig shipped two carloads of plants for the World's Fair from Bryn Mawr on October 8, containing contributions from Mr. G. W. Childs, Mrs. Charles Wheeler and John Curwen, Jr. A large *Phyllocactus latifrons* 10 to 12 feet tall and broad in proportion was among them. Mr. Childs was unfortunate in having a large bed of *Pandanus Veitchii* and another one of crotons totally destroyed by frost about two weeks ago, also a number of plants, large specimens, which were intended for the Columbian Exposition. In the immediate neighborhood the only damage done was to coleus and alternanthera and they were only partly nipped. Mr. Childs had directed that they should be left longer than the gardener, Mr. John Hughes, had intended, hence the loss. Mr. Hughes accompanied Mr. Craig to the dedication ceremonies at Chicago last week.

John J. Connelly has built another house to accommodate his carnations, 16x50 feet.

H. G. Standen reports a large stock of carnations for winter bloom.

Appropos of the drainage question raised by the mention of Mr. Thorpe's use of excelsior, I would suggest *finely sifted* hard coal ashes (not clinkers), as they are easily obtained, answer the purpose admirably, are quickly applied and never clog. The suggestion has appeared in these pages before. J. C., Jr.

Hamilton, Ont.

The annual meeting of the G. and F. Club of this city was held Tuesday, the 13th, and the following officers were elected for the ensuing year: S. Aylett, president; J. Fox, vice-president; D. Brown, secretary; H. Francis, assistant secretary and F. G. Foster, treasurer. After the business of the evening an adjournment was made to Lewis' restaurant where an hour or two was very pleasantly spent in tendering a banquet and presentation of a gold headed cane suitably engraved to T. Burner, one of our members who is leaving us for fresh fields and pastures new. The presentation was made by the chairman, F. G. Foster, and replied to by Mr. Burner in feeling terms,

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and Dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

San Francisco, Nov. 1-4—California State Floral
Society. Emory E. Smith, Sec'y, Palo Alta, Cal.
New York, Nov. 1-7—New York Florists' Club.
Wm Flumb, manager of exhibition, Madison
Square Garden.Philadelphia, Nov. 7-11—Pennsylvania Hort. Soci-
ety, D. D. L. Parson, Sec'y, Horticultural
Hall, Broad St.Toronto, Ont., Nov. 8-10—Toronto Gardeners' and
Florists' Association. A. H. Ewing, Sec'y, 276
Victoria St.St. Louis, Mo., Nov. 8-10—St. Louis Florists' Club.
Emile Schray, Sec'y, 4301 Pennsylvania Ave.Hartford, Conn., Nov. 8-10—Hartford County
Hort. Society, Julian S. Allen, Sec'y.Boston, Nov. 8-11—Mass. Hort. Society. Robert
Manning, Sec'y.Chicago, Nov. 8-11—Hort. Society of Chicago. W. C.
Egan, Sec'y, 622 Dearborn Ave.Milwaukee, Wis., Nov. 8-11—Wisconsin Florists'
and Gardener's Club. A. W. Bennett, Sec'y, 108
Wisconsin St.Minneapolis, Minn., Nov. 8-11—Minneapolis
Florists' Club. E. Nagel, Sec'y, 1118 W. Lake St.
Cincinnati, Nov. 8-12—Cincinnati Florists' Society.
E. G. Gillett, Sec'y, 135 Walnut St.Galt, Ont., Nov. 9-10—Galt Hort. Society. Edward
Lane, Sec'y.Worcester, Mass., Nov. 9-10—Worcester Hort.
Society. E. W. Lincoln, Sec'y.Montreal, Nov. 9-11—Montreal Gardeners' and
Florists' Club. H. Stocking, Sec'y, 235 St.
Denis St.London, Ont., Nov. 9-11—London Gardeners' and
Florists' Society. Wm. Gammage, Sec'y.Providence, R. I., Nov. 9-11—R. I. Hort. Society.
C. W. Smith, Sec'y, 55 Westminster St.Buffalo, Nov. 10-12—Buffalo Florists' Club. Edw.
I. Mepsted, Sec'y, 479 Main St.Washington, Nov. 12-17—Washington Florists'
Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.Oshkosh, Wis., Nov. 15-17—Oshkosh Florists'
Club. Mrs. G. M. Steele, Sec'y.Springfield, Mass., Nov. 15-17—Hampden County
Hort. Society. W. F. Gale, Sec'y, 367 Main St.Baltimore, Nov. 15-18—Gardeners' Club of Balti-
more. J. J. Perry, Sec'y, 221 N. Liberty St.Pittsfield, Mass., Nov. 15-18—Berkshire County
Gardeners' and Florists' Club. A. P. Meredith,
Sec'y, Pittsfield.Indianapolis, Nov. 15-19—Society of Indiana Flori-
stists. Wm. G. Bertermann, Sec'y, 37 Massachu-
setts Ave., Indianapolis.Pittsburg, Pa., Nov. 15-19—Pittsburg and Alle-
gheny Florists' and Gardeners' Club. G. Oester-
ley, Sec'y, 4200 Forbes St., Pittsburg.Bay City, Mich., Nov. 15-19—Bay County Hort.
Society. T. J. Cooper, Sec'y.Erie, Pa., Nov. ——Erie Chrysanthemum and
N. W. Penna. Hort. Society. H. Tong, Sec'y.Newport, R. I., Nov. ——Newport Hort. Soci-
ety. J. J. Butler, Sec'y.

Catalogues Received.

Sander & Co., New York, orchids; John
Gardiner & Co., Philadelphia, carnation
Grace Battles; Albert M. Herr, Lancas-
ter, Pa., plants; Thos. S. Ware, Totten-
ham, London, Eng., bulbs and plants; C. A.
Dahl & Co., Atlanta, Ga., plants, Benj.
Grey, Malden, Mass., aquatics; W. J.
Hesser, Plattsmouth, Neb., decorative
plants; Isaac Spacht, Jerseyville, Ill.,
bulbs and plants; J. H. Harold, Marion,
Md., holly, etc.**CUT SMILAX.**From Nov. 1st to May 1st our price for smilax will
be 20 cents per string. Quality first-class. Prompt
attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

CYCLAMEN FLOWERS will sell if they are
good; CYCLAMEN
plants also. The **giganteum strain** is the only one
worth growing if you grow for sale, and there are
strains and strains of the **giganteum** also. It is
not how cheap, but how good! Remember that!
Gardiner's strain of giganteum comes high; but
it's worth the difference. Sow at once for next
winter's flowering. \$2.00 per 100 seeds; \$8.00 for 500
seeds; \$15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Street, PHILADELPHIA, PA.

Our trade list of choice Flower Seeds free.

ASPARAGUS PLUMOSUS NANUSCUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.Now is the time to get your Stock
for Winter Trade.**ORCHIDS,**

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.**FRESH DRACÆNA CANES**, all sorts.
LILIUM HARRISII and **BULBS** for
Winter Forcing.Send for Special prices or come and examine
our stock. It speaks for itself.**SIEBRECHT & WADLEY,**

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The Finest Stock in the World.

**SANDER'S,
ST. ALBANS,
ENGLAND.**

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview
buyers or reply to any communication addressed to
him at 205 Greenwich Street, New York City.
Mention American Florist**Orchids Cheap as Good Roses.****BRACKENRIDGE & CO.,**Established 1854. **Govanstown, Md.**

PRICE LIST FREE.

1,000,000 CANE STAKES**HARDY CUT FERNS****MOSS** {SPHAGNUM AND
GREEN SHEET.

A 1 IVY LEAVES.

BOUQUET GREEN and **FESTOONING** of
all kinds in any amount on hand.**HARTFORD & NICHOLS,**18 Chapman Place. **BOSTON, MASS.**

Binghamton, N. Y.,

J. O. GRAHAMwill open a florist store on Main
Street about Nov. 2nd.**WHOLESALE
FLORISTS**

La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

Mention American Florist.

Cut Chrysanthemums.

FINE BLOOMS, ON SINGLE STEMS.

Price, \$6 to \$15 per 100. Carefully packed
for long distances.Address **J. G. Burrow,**
FISHKILL, N. Y.**CUT ROSES.**

— SUCH AS —

**PERLES, NIJOTOS, BEAUTIES,
LA FRANCE, MERMEYS, METEOR,
WHITE LA FRANCE.**

can be supplied to florists at Wholesale Prices.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY

• YOU WILL ALL WANT THE •

SNOW CREST DAISYNow in the time to put them in for
Christmas blooming.The most enterprising in the trade are taking
hold of it. The 25,000 nearly all gone. Don't
forget that we are headquarters and owners of the
ORIGINAL PLANT and have the largest stock in the
world and offer them now 12 for \$1.00. Sample
plant with bloom for 12, 1c. or 6, 2c. stamps, post
free; 100 for \$5.00; safe arrival guaranteed.Try a package of Gibson's Seeded Hybrid Pansy
Seed and realize all that can be desired in the
Pansy. 500 seeds 30c; 1000 50c; 3000 \$1.20; 1/2-oz.
\$1.60; 1/4-oz. \$3.00; ounce \$4.50.New Crop Mammoth Verbena Seed in fine mix-
ture; plenty of white; finest crimson and richest
purples, with all the intermediate colors, in
packets of 1000, seeds 60c; 5000 for \$2.25, while
they last.Also the beautiful Sweet-Scented and novel
Dakota Primrose Ice King 100 seeds 25c.
Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

McKELLAR & SPERRY,
WHOLESALE
Cut Flowers & Florists' Supplies
128 & 129 Michigan Avenue,
Near Madison St., CHICAGO.

Open Day and Night. Sunday until noon. Consignments Solicited.

M. OLSON,—*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
—WHOLESALE—
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Market.

Cut Flowers.

Roses, Perles, Gontiers, Niphotos.....	1.00x 2.00
" Mermet, Brides, Hoste.....	2.00x 3.00
" Waterville, Cusin.....	2.00x 3.00
" La France, Albany.....	3.00x 4.00
" Beauty.....	8.00x 25.00
Carnations.....	1.00x 1.25
Valley.....	6.00
Violets.....	50c 1.00
Chrysanthemums.....	5.00x 25.00
Cosmos.....	.50
Adiantum.....	1.00
Smilax.....	12.00x 15.00
Asparagus.....	50.00
BOSTON, Oct. 25.	
Roses, Niphotos, Gontier.....	2.00x 3.00
" Bride, Mermet, Wootton.....	3.00x 4.00
" La France, Meteor.....	4.00x 6.00
" Perle, Sunset.....	3.00x 4.00
" Beauty.....	15.00x 25.00
Carnations.....	2.00
Asters.....	1.00x 1.50
Valley.....	1.00x 1.50
Tuberoses.....	.75x 1.00
Stephanotis.....	.75
Violets.....	.50x 1.00
Anemone Japonica.....	1.00
Cosmos.....	.50
Chrysanthemums.....	6.00x 12.00
Asparagus.....	50.00
Adiantum.....	12.00
Smilax.....	12.00
PHILADELPHIA, Oct. 25.	
Roses, Beauties.....	15.00x 30.00
" La France, Albany, Mermet, Bride.....	2.00x 4.00
" Pierre Guillot, Wootton.....	3.00
" Waterville.....	3.00
" Perle, Niphotos.....	2.00x 3.00
Valley.....	6.00
Carnations.....	1.00x 1.50
Violets, double.....	.50x .75
Chrysanthemums.....	8.00x 25.00
Bouvardia.....	1.00
Dahlias.....	1.00
Cosmos.....	.50
Adiantum.....	1.00
Smilax.....	15.00x 20.00
CHICAGO, Oct. 25.	
Roses, Perles, Niphotos, Gontier.....	3.00x 4.00
" Mermet, La France, Bride, Albany.....	4.00x 5.00
" Beauty.....	10.00x 15.00
Carnations, short.....	1.50x 1.00
" long.....	1.25x 1.50
" fancy.....	2.00x 3.00
Chrysanthemums.....	6.00x 20.00
Violets.....	1.50x 1.00
Adiantum.....	1.00x 1.50
Smilax.....	16.00x 20.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies

—WHOLESALE—
67 Bromfield Street, BOSTON, MASS.
N. F. McCARTHY & CO.

Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
—WHOLESALE—
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 4th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHRs,
—WHOLESALE—
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Mention American Florist.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations.
Branch, at Cut Flower Exchange, 408 E. 34th St.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST. ST. LOUIS, MO.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wettersfield, Conn.

SAN FRANCISCO, CAL.—H. J. Campbell has retired from the Sherwood Hall Nursery Co., Mr. Jas. Sproule taking full control.

VISITED CHICAGO:—E. W. Burt of S. L. Allen & Co.; Phil. Stimmel, Chas. P. Braslan, Mr. Willard, of Comstock, Ferre & Co.

IMPORTERS of *Lilium auratum* report crop in Japan short this year and that the prices have gone up 30 per cent. There will not be enough of the large bulbs to fill orders.

Z. DE FOREST ELY & Co. have had considerable trouble with an employe who has been caught stealing seed from their North Broad street warehouse and selling it at half price to dealers who were supposed to have had knowledge of his guilt. Two or three parties have been arrested, and the loss is said to be from \$1,000 to \$1,500.

ONION SEED reports of late are more unfavorable than ever and the past few days has seen quite a flurry of excitement in regard to this seed. Some holders predict that the red and yellow sorts will sell at \$2 at wholesale before January and that the prices generally will go higher than for 10 years. Whether all this excitement is justifiable or not nobody knows, but the present outlook is certainly for considerable advance for all kinds, while whites and Yellow Globe Danvers are specially scarce.

CYCLAMEN PERSICUM GIGANTEUM

3-inch pots, showing bud, \$8.00 per 100.

CARNATIONS, Field grown.

LIZZIE McGOWAN, MRS. FISHER, PORTIA J. J. HARRISON, and others. Price \$7 per 100.

LOUISE PORCH, fine plants, \$8.00 per 100.

Address J. G. BURROW,
FISHKILL, N. Y.

Double Petunias.

Twenty extra choice named sorts. Twelve of these were illustrated in the AMERICAN FLORIST No. 225. These are the result of 12 years' careful breeding. Price, \$10.00 per 100.

I also offer a limited quantity of Seed of this Double Strain at 50 cents per 1000 seeds.

G. A. McTAVISH,
VICTORIA, B. C., CANADA.

BEST GERMAN PANSIES.

From seed bench; strong plants in 50 sorts, 75 cents per 100; \$5.00 per 1000.

JOHN P. TONNER,

MONT CLARE, ILL.

Orders received in English, German and Danish.

E. G. HILL & CO.,

Wholesale Florists,
RICHMOND, INDIANA.

ROSES. Our TRADE DIRECTORY contains the names, date of introduction and the name of the introducer of all the roses in commerce in America. Price, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

FORCING BULBS!

WHITE ROMAN HYACINTHS.

DUTCH HYACINTHS AND TULIPS.

LILIAM HARRISH AND VON SION.

MUSHROOM SPAWN A SPECIALTY.

WEEBER & DON,

SEED MERCHANTS AND GROWERS.

114 Chambers Street,

NEW YORK.

Illustrated Catalogue on application.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.

ENGLISH
MUSHROOM
SPAWN.

Large importation of fresh stock just received.

1 lb 15c.; 10 lbs. \$1.25;
100 lbs \$8.00.

W. W. BARNARD & CO.,

6 & 8 N. CLARK STREET,

CHICAGO.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

Mention American Florist.

Roman Hyacinths.

We have a few thousand White Romans, 12 to 15 cms. to close out.

Let us hear from you if you can use any.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

75,000 IPOMOEA PANDURATA

(Day-Blooming Moonflower.)

ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 100 rate. Per 1000 \$20; 500 at 1000 rate.

Orders booked and shipped when desired.

GERANIUMS, 2 1/2-inch pots, assorted named, \$2.50 per 100.

JAMES FROST, Greenville, Darke Co., O.

LILIAM HARRISH.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc. Etc. For prices examine

Wholesale Catalogue.

Address with business card,

136 & 138 West 24th Street,

STATION E.

NEW YORK.

Mention American Florist.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARACARIAS.

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

ROMAN HYACINTHS.

White.....per 100, \$1.00; per 1000, \$15.00

Blue.....per 100, 1.25; per 1000, 16.00

Pink.....per 100, 2.00; per 1000, 19.00

CHINESE SACRED LILY.

Extra fine bulbs....per basket (30 bulbs), \$1.30

CROCUS.

All colors mixed, extra fine,.....\$2.00 per 1000

H. G. FAUST & CO., 64 & 66 N. Front St., Phila., Pa.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

LILY of the VALLEY.

(Hamburg grown, best for ear's forcing.)

1,000.....\$ 7.50

10,000.....72.50

50,000.....337.50

Prices on larger quantities by correspondence.

F. W. O. SCHMITZ & CO.,

60 Barclay Street, NEW YORK CITY.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and

Requisites. They are the

best at the lowest prices.

PLEASE SEND FOR our quarterly, mailed free to the

trade only.

HENRY A. DREER,

Philadelphia.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such

as Apple, Pear, Myrobalan Plum, Mahaleb and Wazard

Cherry, Angers Quince, Small Evergreens, For-

est Trees, Ornamental Shrubs, Roses, etc. The

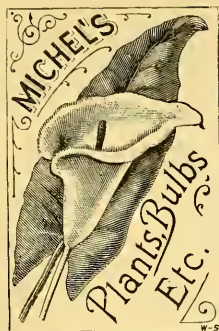
largest stock in the country. Prices very low.

Packing secured. Catalogue free. Send for

quotations before placing your orders elsewhere.

Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.



Write for wholesale list.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

SURPLUS STOCK.

5 000 English Ivies, from 3 in pots, 24 inches high, \$4.00 per 100.
 5 000 English Ivies, from 4 in. pots, 24 inches high, \$5.00 per 100.
 500 Bouvardia Davidsonii and Alldred Neuner, from 5 inch pots, \$8.00 per 100.
 500 Begonia Rex and Silver Queen, nice salable plants, from 4 inch pots, \$8.00 per 100.
 1 000 Acorus variegata strong, 3 in. pots, \$9 per 100.
 500 Strong, healthy Carnation Peerless, 50 per 100.
 A number of specimen plants of Faidanias utilis, Dion edule, Scaforthia elegans, Arcas, etc.
 Prices and sizes given on application.

JOHN RECK, BRIDGEPORT, CONN.

Ficus Elastica.

Extra strong plants, 6-inch pots
\$50.00 per hundred.

ANDORRA NURSERIES,

Wm Warner Harper, CHESTNUT HILL, PHILA., PA.
MANAGER.

SEED.

50 lbs. Fresh Paulownia Imperialis Seed.

See what Peter Henderson says of this valuable tree in Handbook of Plants. Young trees produce fine tropical effects. We have cut leaves over two feet across.

ROGERS NURSERIES, Moorestown N. J.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,
Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y.

Hyacinths, Tulips and Daffodils

	PER 100	PER 1000
SINGLE WHITE ROMAN HYACINTHS,	\$2 00	\$20 00
Double Red and Rose Hyacinths,	3 00	25 00
Double Blue and Purple	3 00	25 00
Double White	3 00	27 00
Single Red and Rose	3 00	25 00
Single Blue and Purple	3 00	25 00
Single White	3 00	27 00
Double Yellow Daffodils,	1 50	14 00
Single Yellow	1 50	14 00

ROBERT BUIST Jr.

IMPORTER OF BULBS . . . PHILADELPHIA, PA.

FLORISTS' STOCK IN SEASON.

	Per 100	Per 1000
Hyacinths—Named.....	\$5.00	
Mixed, single, separate colors.....	25.00	
" Roman, yellow	35.00	
" Roman, white, 11 to 12 buds.....	12.50	
Narcissus—Stella	8.50	
Cynosure	20.00	
You sion, Dutch grown.....	15.00	
You sion, Dutch grown.....	17.00	
Double Roman.....	10.00	
Chilosee.....	6.50	
Lilium Auratum, 7 to 9 inch.....	7.50	
Auratum, 5 to 10 inch.....	9.50	
Auratum, 6 to 8 inch per 100 in N. Y.....	7.50	
Rubrum, 6 to 8 inch.....	7.50	
Rubrum, 8 to 9 inch.....	10.50	
Album.....	22.00	

Tulips, single, as follows: Cottage Maid, Crimson King, Couleur Ponceau, Chrysolora, Canary Bird, Golden Kroon, Keiserkroon, Jagt Von Delft, Pottelbakker, white and scarlet, Queen Victoria, Rembrandt, Rose Mundi, Van Vondel, Yellow Prince.

Tulips, double, as follows: Gloria Solis, La Candeur, La Claudielle, Fanny Gold, Purpurkroon, Rex Rubrum, Titian, Yellow Rosa, Duke of York. All at bottom prices.

BOUQUET GREENS—Per 100 in Chicago, \$5.00; in New York, \$6. Write for prices on larger lots.

HOLLY—Vaughan's "Get Thicker" Holly, fair cases. All stock, known to be the best and most reliable, per case, \$6.00; 3 cases \$16.00; 5 cases \$25. There is big money in this stock. Order now and be sure of it.

AZALEAS DUE NEXT WEEK.

NEW YORK. J. C. VAUGHAN, CHICAGO.



Fancy.

Dagger.

Say, Look Here!

* * * *

What is the use of spending your time gathering and storing away Ferns for winter use. Don't you know that Brague makes a specialty of the Fern business, having a lot of buildings all fitted up for storing them, and almost an army of trained men to gather them; putting away millions of them; being the oldest, largest and most reliable dealer in the U. S. And you can buy Ferns from him for one-half that you can get them for, and at any season of the year.

FIRST QUALITY EVERGREEN CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

Also dealer Sphagnum Moss, Bouquet Greens, Christmas Trees, etc., etc.

L. B. BRAGUE, Hinsdale, Mass.

We are the People!
Who? **KOFFMAN,**
Where? **WALDEN,**
Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? **ALL THE YEAR AROUND.**

Also Adiantum Cuneatum Fronds
At \$1.25 per 100.

And he pays the Express.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED

— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.
Mention American Florist.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

Chrysanthemum, Carnation and Orchid EXHIBITION

UNDER THE AUSPICES OF THE
Bay County Horticultural Society, of Bay City, Mich.,
TO BE HELD NOVEMBER 15 TO 19 INCLUSIVE, 1892.

Prizes, so far as Arranged, \$1,028.50.

SEND FOR PRIZE LIST.

. JOHN IRVINE, Pres. T. J. COOPER, Sec'y.

CLASS 1. Chrysanthemums—Cut Blooms.

Open to all outside Bay County. First Second Third.
1—Best 100 long stem cut blooms, 20 varieties, five of each.....\$150.00 \$50.00 \$25.00

CLASS 2. Chrysanthemums—Cut Blooms.

Open to all.
1—Best Seedling, any color, never before exhibited.....\$25.00

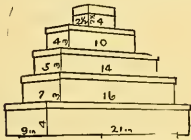
CLASS 3. Orchids.

First. Second.
1—Best display of Orchid plants in bloom.....\$150.00 \$50.00
2—Best display of cut blooms.....25.00 10.00

CLASS 9. Carnations.

1—Best 125 long stem cut blooms, five varieties, 25 of each.....50.00 20.00

Paper Boxes FOR FLORISTS.



All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street, CHICAGO.



WHITE DOVES FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.

MARSCHUETZ & CO., FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.
Mention American Florist.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConnellsville, O.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852. PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

Always mention the American Florist when writing to advertisers.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across, \$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

“ “ to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 3-inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fills up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • Bay City, Mich.

ASTILBE JAPONICA VAR. GRANDIFLORA.

“THE PEER AMONG FORCING PLANTS.”

Splendid stock of well grown plants for forcing. Special rates on application.

CLEMATIS PANICULATA. “The latest blooming and most fragrant of its family.”

Immense stock of splendid plants. Special rates on application.

Our Fall Trade List is ready. Were you overlooked?

(Established 1854.) THE READING NURSERY,

• JACOB W. MANNING, Proprietor. • READING, MASS.

Association “Flora” NURSERY CO.,

BOSKOOP, HOLLAND

ROSES, CLEMATIS, AZALEAS,

RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

ADDRESS

P. OUWERKERK,

P. O. Box 1845.

NEW YORK.

H. BAYERSDORFER & CO., WHOLESALE FLORISTS' SUPPLIES ONLY,

66 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$2.50 for it, to
J. HORACE MCFARLAND, Harrisburg, Pa.

Kerosene Emulsion.

ED. AM. FLORIST.—As I have received several inquiries about the kerosene emulsion, I enclose the following receipt for publication:

Soft soap one quart, or hard soap one quarter of a pound, preferably whale oil soap; two quarts of hot water, one pint of kerosene; stir until all are permanently mixed; add water until the kerosene forms one-fifteenth of the whole compound; mix and apply it with a hand syringe. For soft soap I use a five-cent package of pearline, which makes six quarts by following directions on the package. This receipt is from the Horticulturist's Rule Book.

This is in answer to numerous inquiries in regard to the article on the use of kerosene emulsion, published in your issue of the 15th inst. E. D. DARLINGTON.

Doylestown-Pa.

Aristolochia Ornithocephala.

I read with interest your article headed "The Columbian Exposition" on page 236. You mention the peculiar vine trained in the main building, Aristolochia ornithocephala. This vine I received two years ago from South America. It has bloomed with me out of doors for two months and has thousands of different sized buds still to open. So far the plants have not seeded for me. I winter them in the greenhouses, and plant on a trellis in the spring. I think they could be made to bloom around Chicago outside, if plants could be had large enough to be planted out by May 1.

Anniston, Ala.

F. J. ULBRICHT.

Greenhouse Shade.

Naphtha and white lead forming a milk-like liquid when mixed is what is ordinarily recommended. Here, however, naphtha was priced at 15 cents a gallon, coal oil costs only 7½ cents. Naphtha is volatile, coal oil is also, only more slowly. I used coal oil instead of naphtha in making my shading this summer, and the former answers quite as well as the latter.

New Albany, Ind. ERNEST WALKER.



Chinese Lily Bowls.

Balls planted in these bowls increase your sales 100 fold.

No. 1. BLUE & WHITE. Extra fine porcelain. BLUE AND WHITE. Set of 3 bowls, 7, 8½ & 10 in. \$1.50. No. 2. Set of 3 bowls, 5, 6 and 7 inches, etc. No. 3. JAPANESE. Beautifully decorated in many colors. Set of 3 bowls, 7, 8½ & 10 inches, \$1.00. No. 4. Set of 3 bowls, 5, 6 and 7 inches, etc. 5 per cent off on 12 sets; 10 per cent off on 25 sets. No. 5, single bowls, extra deep, 6 inches, \$3.50 per dozen.

A. BLANC & CO., Philadelphia, Pa.
Headquarters for Cacti and Electrotypes.

BEGONIA VERNON.

The only really successful bedding begonia for the northwest, standing the hottest sun, which ever increases its beauty.

A highly satisfactory pot-plant, ever blooming and beautiful, of easy culture. The flowers are bright orange carmine, while the foliage is glossy red. No other plant is so constantly loaded with flowers as this magnificent begonia. It will be the best selling plant next spring. Now is the time to secure propagating stock, for which we are headquarters. See our prices in last week's FLORIST or write us.

M. WINDMILLER & SONS, Mankato, Minn.

Chrysanthemum Show,

UNDER THE AUSPICES OF THE NEW YORK FLORISTS' CLUB

— AT —
MADISON SQUARE GARDEN,
November 1 to 6, inclusive;
OPENING AT 2 P. M. TUESDAY, NOV. 1, 1892.

\$6,500 In Premiums. \$6,500

Besides a large number of SILVER CUPS and other Special Prizes.

SPECIAL ATTRACTIONS FOR EACH DAY OF THE SHOW.

Schedules are now ready, and may be had by addressing

J. V. GOTTSCHALK, Sec'y Madison Square Garden Flower Show,
or WILLIAM PLUMB, Manager Exposition Madison Square Garden.

The Garden will be open for the reception of exhibits Monday, October 30th,
at 6 o'clock A. M.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39, Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

Mention American Florist.

GOLDEN NAMES FOR EXHIBITORS.

If you desire your Chrysanthemums correctly, neatly and handsomely named at the coming shows, send for my set of 150 labels and names in gold and dark green. They will save you time, trouble and expense, add to your exhibit and aid you in obtaining prizes.

One set, post free, Two Dollars; three sets, Five Dollars. Circular free.

T. H. SPAULDING, Orange, N. J.

BUTTED GLASS SASH BARS.

Does away with all putting and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.

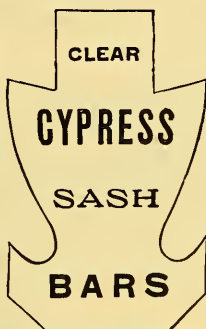
Shall we book your order next?

Enclose 2c. stamp for sample.

ADDRESS

LOCKLAND LUMBER CO.
A. M. STEARNS, Mgr. LOCKLAND, OHIO.

CYPRESS GREENHOUSE MATERIAL



HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
When writing mention American Florist.

Cane Stakes.

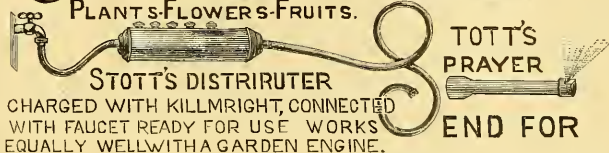
ANY QUANTITY UP TO
A CAR LOAD.

J. D. CARMODY CO.,
EVANSVILLE, IND.



Mention the AMERICAN FLORIST
when writing advertisers on this page.

STOTT'S KILLMRIGHT SYSTEM OF PRAYING KILLS, INSECTS AND MILDEW PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRIUTER
CHARGED WITH KILLMRIGHT, CONNECTED
WITH FAUCET READY FOR USE WORKS
EQUALLY WELL WITH A GARDEN ENGINE.

STOTT'S SYRINGE



CELL "A" CONTAINS THE KILLMRIGHT

CIRCULAR AND
TESTIMONIALS.

STOTT GARDEN IMPLEMENT
COMPANY
136 LIBERTY ST. NEW YORK.

Greenhouse Pipe and Fittings



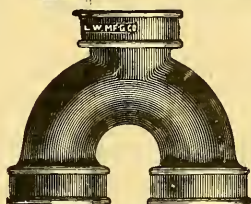
Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.



L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.



**Do You Want
A RELIABLE
SUPPLY OF
WATER**

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved
**RIDER
OR
ERICSSON
PUMPING ENGINE**

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.



**For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,**

FOSTITE

cures MILDEW on ROSES and CARNATION
RUST. Recommended by leading horticulturists and florists after careful tests.

For sale by Wholesale Dealers, and

C. H. JOOSTEN, 3 Coenties Slip, New York,
Importer of Plants and Bulbs.

STANDARD FLOWER POTS.

We are MANUFACTURING THE STANDARD POTS, and shall be pleased to mail price lists to all florists who wish to give us a trial.

PRICES MODERATE.

MATERIAL BEST.

Address

CHAS. MARKMEYER & SON, New Albany, Indiana.

REFERENCES: Nantz & Neuner, of Louisville, Ky., can furnish information about quality of our flower pots, having bought to years of us.

Fumigating.

Where the old method of fumigating greenhouses with tobacco stems is still practical, lighting or firing the bunches is reduced to a minimum amount of trouble by placing the bunches in position through the houses, then taking a small coal oil can and a pocket of matches. The bunch is turned up, about a tablespoonful of oil spurted on the stems, a match lights it, the bunch is then turned back and when well started is given a parting pat with the foot.

A house should never be fumigated without first syringing lightly all the foliage except of certain plants which wetting at night injures. This ordinarily will prevent damage to the tender kinds of foliage such as heliotrope. It is better still to wet all board surfaces. This makes the effects of the smoke more enduring. Moreover, when the house is syringed and the stems are crushed into a compact bunch so as not to burn too briskly they may be used dry. Otherwise it is necessary to provide a wet bunch of stems to cap the dry.

New Albany, Ind. ERNEST WALKER.

Oil in Greenhouse Heating.

ED. AM. FLORIST:—To avoid misleading your readers we write to correct some errors in the communication that appeared on page 256 of your last issue.

We use some 2,000 barrels of oil during the season, which is stored from time to time as needed, in two tanks, holding 160 barrels each. Also the distance from oil tanks to boilers is 1,500 feet. This distance insures safety, while 400 feet (as stated by your correspondent) would not be so safe. By the use of oil for fuel we consider that we make a saving of 25%, if not more.

JOHN BREITMEYER & SONS.
Detroit, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

OUR . . . HALF-TONE ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.



YOU
Find the Powder,
SCOLLAY
Sends the
GUN

By Mail for \$1.25.

All florists and amateurs should try the newly invented rubber

Insect Powder Bulb.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Please mention American Florist.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

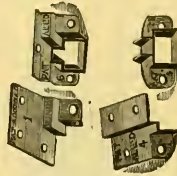
Best in the market.

D. C. SCHOFIELD & CO., NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFLE & CO., SYRACUSE, N. Y.



Mention American Florist.

GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists.
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

CARNATION CULTURE; BY L. L. LAMBORN

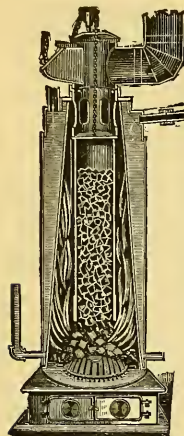
Third Edition containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N. J.

A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & ETC



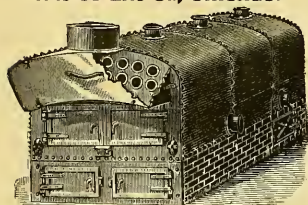
Chicago Root of Sangamon Street.

Always mention the AMERICAN FLORIST when writing to advertisers.

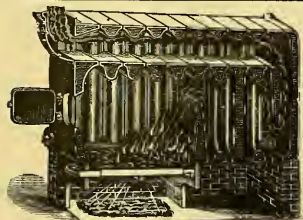


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by
THE S. WILKS MFG CO. CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, sheet and heads of steel, water space all around (front, sides and back). Write for information.



A Carmody Boiler

will Cost less, Use less Fuel and has more advantages than any other Boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

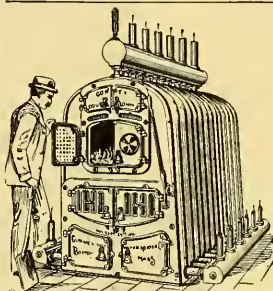
We make a Specialty of GLASS FOR HOT-HOUSES.

Please mention the American Florist every time you write any of the advertisers on this page.

THE LATEST AND BEST for heating GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Selling Agencies: { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY, 57 and 59 W. Randolph Street, CHICAGO, NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.

GARDENING

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by THE GARDENING CO., Monon Building, Chicago.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE **BENCH TILE** •

Used by all the leading Growers and Horticultural Builders.

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY.

JULIUS TESMER & CO.,
Manufacturers of all kinds of
Ice Boxes
ESPECIALLY FOR FLORISTS.
937 to 941 N. Western Ave., CHICAGO.
— Telephone West 670. —

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
One glass received the highest award at the Boston Convention of the S. A. F.

THE STANDARD Ventilating Machines



Received best awards at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

Index to Advertisers.

Abel C C & Co.	285	286
Adv Rates, etc.	281	
Adornia Nurseries	281	
Ballou F. A.	281	
Barnard W W & Co.	288	
Bay Co Hort Soc	291	
Bay State Hdw Co.	291	
Bayersdorfer H & Co.	291	
Becker H H & Co.	292	
Black A & Co.	292	
Bonsall Jos E & Son	292	
Boston Letter Co.	292	
Brackbridge & Co.	292	
Braque L B.	292	
Brainer & Rehnert	292	
Bulst Jr	292	
Bullock A N.	294	
Burns & Laynor	294	
Burrow J G.	294	
Carman R W.	294	
Carmody J D.	293	
Chitty H E.	294	
Cook John.	294	
De Lammier Iron Wks.	294	
De Witt J Thomas.	294	
Diesel A & Co.	294	
Dillon J L.	294	
Dreer H A.	294	
Eckhardt Theo.	294	
Eldridge W M.	294	
Elliott W H.	294	
Ellison Wm.	294	
Frost H G & Co.	294	
Fried S B.	294	
Frost James	294	
Gardening Co The.	294	
Gardner J & Co.	294	
Gibson J C.	294	
Gonzalez & Co.	294	
Graham J O.	294	
Gorney Heater Co.	294	
Hall Assn.	294	
Hart James	294	
Hart Michael A	294	
Hartford & Nichols.	294	
Herr Albert M.	294	
Hewes A B & Co.	294	
Hill E G & Co.	294	
Howard E.	294	
Hitchings & Co.	294	
Hooks H M Co.	294	
Hulsebosch Bros.	294	
Hunter E H.	294	
Hunt M A.	294	
Hunter & Purdy	294	
Hutchinson John T.	294	
Irline John Co.	294	
Jeffords J E & Co.	294	
Jennings F B.	294	
Josten C H.	294	
Jordan Floral Co.	294	
Kennell Bros.	294	
Koffman F.	294	
Koster & Co.	294	
Krick W.	294	
Kroschell Bros.	294	
Kuehn C A.	294	
Laing John & Sons.	294	
La Roche & Stahl.	294	
Lockland Lumber Co.	294	
Louhard R P.	294	
Long Dan I B.	294	
Lonsdale Edwin.	294	
McBride Alex.	294	
McCarthy N F & Co.	294	
McFarland J H.	294	
McFarland J H Co.	294	

FREMONT, NEB.—John Gird, formerly of Haughville, Ind., has purchased the plant of W. J. Bigger of this place.

WHITELAND, IND.—Bert L. Smith is starting into the florist business at this place. He has just completed his first house, 20x60.

FLUSHING, N. Y.—On the evening of October 16 fire broke out in the packing room of the John Henderson Co. and spread rapidly to six adjoining greenhouses. The packing room was filled with a quantity of new lumber, boxes and tools. In the greenhouses were roses and chrysanthemums, many of which were destroyed. It was found that the fire started from one of the pipes leading into the greenhouses from the boiler. Loss about \$4,000.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS

Hot-Water Boilers,

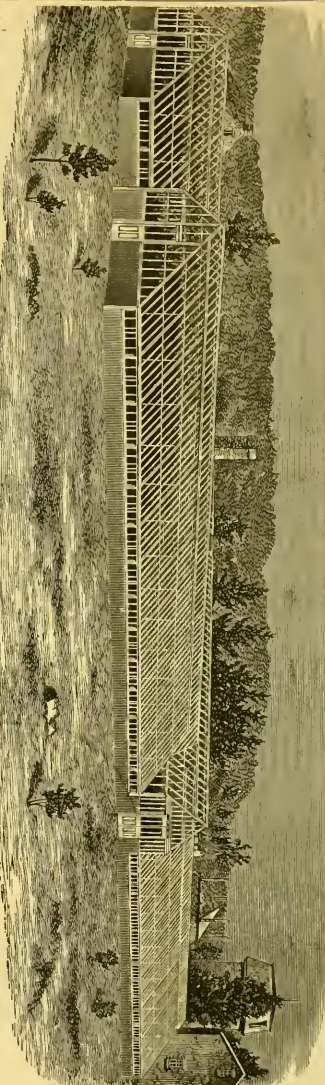
244 CANAL STREET,

NEW YORK.

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON, AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERRECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.



HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.

THE SPENCE HEATER
HOT WATER FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLE, Sec'y F. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, NOVEMBER 3, 1892.

Along
B. D.
cks Ar-

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

How a Phila. grower builds his houses	297
Jardinieres (with five illus)	299
The Columbian Exposition	299
Exhibition at U. S. Nurseries	299
Carnations—Bordeaux mixture for rust	300
—Carnation crosses, II	300
—Seasonable hints	300
—Lifting carnations	301
Disbudding roses	301
Packing	301
New York	302
Boston	302
Chicago	302
Philadelphia	303
Washington	304
Baltimore	304
Toronto	304
A further introduction (portraits)	305
Paris, 1878; Chicago, 1893	305
Cemetery superintendents	305
Cads	305
Pessimism	306
News notes	306
Chrysanthemum shows	308
The seed trade	310
Denver, Colo.	314
St. Louis	316
Blue carnations	318
A plea for a higher standard	318

BROOKLYN, N. Y.—The collection of dried specimens in the department of botany at the Brooklyn Institute is said to be one of the most complete of its kind in this country. Recent additions have been a collection of 4,000 mounted specimens from E. S. Miller, including all the flowers found in the eastern states. He also gave about 4,000 unmounted specimens from the Rocky Mountains. Maria O. Steele, formerly secretary of the department, presented a collection of all the plants and flowers of Long Island. The institute had already the Claverley collection of 12,000 specimens and the Zelfie collection of 1,000.

You can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

How a Successful Philadelphia Grower Builds His Houses.

To be successful as a florist, at least as far as the growing of flowers is concerned, a man should have some mechanical ideas. Many good growers know just the kind of houses they need, but they can not build them, neither can they get capable mechanics to do it for them. The ordinary carpenter is all at sea when he is put to work on a greenhouse; it looks simple enough, but before he gets through he finds he has a great deal to learn, and the florist is called on to pay the tuition. Of course the man with capital can call in the professional builder and have houses erected that are a credit to all concerned, but the great majority of greenhouses are not built in this way, the average florist not being able to afford it. George Anderson, of 52nd and Woodland avenue, Philadelphia, is a good example of the successful florist. The products of his place are fine and his houses are models of perfection. Scarcely a week passes that some one interested does not call to get points and ideas, and try to carry away the houses, in his mind. Now, to the best of our knowledge he has never had a carpenter on the place; he builds, glazes and paints them according to his own ideas and with the assistance of his own men. He was the first in this city to put in steam as a means of heating, and after the boiler had been set the balance of the work was his own. Points from such a practical mechanic, as well as successful grower, are worth having, and we here present a description of a house erected by him during the past summer, and which contains all his latest improvements. The dimensions of the house are 20 feet wide by 100 long, 13 feet 6 inches to top of ridge pole, front wall 4 feet, back 7½ feet high. He says: "We find this to be the most convenient size, as we can devote the entire house to one kind of rose and give it the special attention it may require."

"This house, like all your others, is frame, would not one of brick or stone last longer?" "Yes, and cost considerably more. No, I like frame houses; if well put together, of good material and kept painted they will last from 15 to 20 years, and this is long enough."

"To start with, what kind of posts do you use?"

"Good red cedar, showing at least four inches of red wood at the smallest end; they face them on one side at the mill, we square off the butts, place them in good solid ground in holes four feet deep and four feet apart. When they are all in and the holes filled half way up and rammed hard with a heavy mallet and drive them down as far as we can. I believe we were the first to do this; it prevents their settling afterward, as some of them being more slender than others a cap to give a little. The balance of

the hole being filled up and ramming everything is a solid as a rock. The ridge pole is now stretched and the top squared off to the proper height. We use a double winch plate; the lower one is of yellow pine 4 inches thick and 4 wide, this is nailed on top of posts and makes a bearing for a whole length of the house. The main plate is of cypress 3 inches thick and 9 wide, beveled inside 1½ inches in 6, to throw off water freely, with a drip groove on the under edge both inside and out. The upper surface outside is beveled to conform to the pitch of the house as seen in Fig. 1. It is fastened to

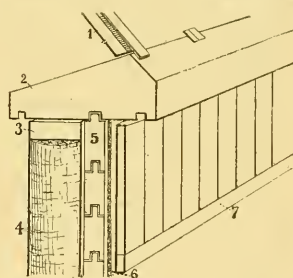


Fig. 1.

1. Sash bar.
2. Upper or main wall plate.
3. Lower wall plate.
4. Post.
5. Inside layer boards.
6. Paper.
7. Outside layer.

lower plate by nails driven up underneath so that there are no nail holes for water to soak into and destroy the wood. The ridge pole is of good white pine 2x10. White pine is the best, as it does not twist and will last as long as there is any part of the house left to hold together. We splice the sections in such lengths that there is a post under each joint. The rafters are 2x4 of cypress and are let into the ridge pole ¼ of an inch, so in putting them up they can not be nailed out of place, and it also keeps them from twisting. In some houses the ridge pole is let into the rafters, which meet underneath, but we prefer to let the entire end surface rest against the sides, the bottom of the rafters being flush with the bottom of the pole. This is shown in Fig. 2. In order to keep the rafters and ridge pole from dissolving partnership we use a piece of iron 8 inches long, 2 inches wide and 3-16 thick; this is bent to suit the pitch of the house and fastened in its place with two ½ inch lagg screws 3 inches long, one into each rafter, these take the place of a brace across and look better. The mortise holes are cut in the

ridge pole before it is put up and it is then a very easy matter to get the rafters the right distance apart. In this house there is about 8 feet 5 inches between them. The posts that support the center are 1 1/4 inch pipe, while those in the center of long span are 3/4 inch. A flat stone with a hole cut to fit the pipe is used for a foundation.



Fig. 2.

(Ch. Chitt)
Cook John...
De Lamater;
De Witt J.
Hetsch A.
Dillon J.
Dreer H.
Eckard Ridge pole.
Edrigo Rafter.
Ellis Iron brace.
Faus Lagg screws.
Fiele
Fris
GAR
GAR
GAR
GAR
GAR

The upper end under ridge pole screws into an iron flange which rests against a wooden cleat nailed to the pole. In the middle of the long span there is a wedge-shaped piece of wood screwed to each rafter to make a square bearing, under which the post, which is also fitted with an iron cap, is placed. The bars are 1 1/2 x 2 rabbeted out 3/4 deep, with 5-16 of an inch glass bearing, to allow plenty of room for double thick glass. We use double thick altogether now, it costs no more than single thick did when we first commenced to build. The wear and tear on single thick is immense, if a pane gets cracked it soon goes; double thick also stands hail much better; 16x24 is the size we like best, bedded in putty, spriegled in with zinc shoe nails and nothing outside but good white lead.

"The bars are fastened to the plate with a nail in each side of rabbet, so that when glazed the putty is forced down into the holes and they are watertight. The lower ends of the bars are fitted to the inside flange of the wall plate, the glass bearing surface being on a line with the outside bevel; the lower light of glass is bedded in putty to the plate the same as on the bars. We set our glass with the convex or arch side up, it makes much the strongest job and glass put in this way will last longer. It also catches the sun better. Some prefer it the other way because they think it carries the rain off, keeping it away from the bars. But this doesn't amount to anything; properly glazed there will be no leak, either at the bars or anywhere else. The upper end of the bars of long span are mortised into the top rail. This rail, on which the bottom of the ventilators rest, is grooved to admit the top row of glass, as is also the back of the ridge pole.

"The ventilators meet in center of rafters and are continuous the whole length of the house, they are three feet deep. We use Hippard's power to work them, but all the rest of the connections are our own. For the shaft we use double strength 1-inch pipe. The arm is attached to the shaft with a malleable iron casting in two pieces, having a bearing of 2 1/2 inches, two bolts attach it securely and there is no need of a set screw. This contrivance grips the pipe and it will never slip. Fig. 3 shows this. In the lower end of the largest fitting is a threaded opening large enough to take in a piece of 3/8 pipe, threaded at both ends, which forms the short arm of the ventilator. The joint or hinge that fits to this pipe is a small casting, threaded and with a slot and bolt to receive the long arm of 3-16x5/8 iron; this is attached to

the sash in the ordinary manner. The advantage of this arrangement is that the short arm pipe can be given a few turns here and there and bring the whole apparatus in line, making it much easier to work. I think there should be a check on the power wheel so that the ventilators could not be turned too far either way by a careless workman. There is considerable strain on the shaft lifting a 100 feet of ventilators. With the power in the center of the house on raising the ventilators there is a certain amount of twist given the pipe before the extreme end sash are raised, and the center sash will be found to be first to open and last to close. In order that all should work evenly it is best to raise them so that the end sash shall be open an inch or so, then loosen the arm at the shaft, letting the sash down and fasten it again. Commencing at each end of the house continue this with every one up to the center; they will now all raise alike.

"We use iron purlins, they being far better than wood. Some use iron pipe which runs the full length of the house and to which are fastened the posts. Each bar is also fastened by a piece of

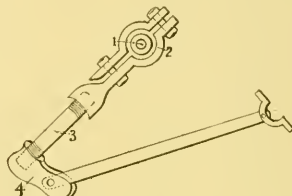


Fig. 3.

1. Shaft.
2. Malleable iron fittings.
3. 1-inch pipe threaded.
4. Casting and bolder for long arm.

strap iron to this pipe and the result is that the differences in temperature cause this long length of pipe to expand and contract considerably, throwing everything out of true. I have known cases where the bars have been pulled apart far enough to let the glass down. We use angle iron 1 1/4 x 1 1/4; this is cut in lengths to fit snug between the rafters and bolted at each end to an iron bracket. This bracket is let into each side of the rafter so that it can not twist, one bolt passing through and holding both sides firmly. Before the purlins are put up we bend them a trifle, so that each presents a slight arch; in this form they bear the weight better, but to all appearances the roof is perfectly even when glazed. Each bar is fastened to the purlin by a screw from underneath and can not warp. We use one purlin for the short span at the back and two for the front.

"For the sides of the houses, in the first layer, we use hemlock boards 10 to 12 inches wide, planed on one side, tongued and grooved; they are made this way to our order. We set them horizontally, planed side out, for the whitewash with which we coat the inside of houses up to the wall plate will take a better hold on the rough surface. We set the tongued edge up so that the water that runs down the sides of the house when syringing does not lay in the groove should it get into the cracks. The top board is tongued so as to fit up into a groove in the bottom of the wall plate and is nailed to the lower wall plate, making a tight job at the eaves. In having the boards fitted this

way they are tight and the water does not get between the two layers.

"Next comes a lining of tar paper. For the outside we use double beaded white pine fencing, put on perpendicularly, finished with a rough board at the bottom that can be replaced when necessary. I like this better than German siding, as in crossing the boards it makes a much stronger job. The rise in the long span of this house is eight inches to the foot.

"We like to have everything solid, no casings about the door jambs, and we are very particular with our doors; a great deal of cold air gets in about a door if it is full of cracks or does not fit well. Our idea is seen in Fig. 4. The stiles for the sides are of 1-inch white pine four inches wide, top rail six and center and bottom rail eight inches; this framework is fastened together with wedge-shaped dovetails, the cross pieces and sides being let half way into each other. White pine tongued and grooved boards are then fastened to the back of the frame with clinched nails. The center rail is placed below the middle of the door and in the square between this and the bottom rail, two trees crossed and let into each other are placed diagonally, these prevent the door from racking. This door can not pull apart, or warp, or get out of order in any way and will last a life time. They are 6 feet 6 inches high and 3 feet wide. In building this house wherever two pieces of wood came together we used plenty of white lead at the ends of sash bars, in the doors, between the wall plates and wherever we could not get with a brush afterward we used paint freely. The front and back benches are about 30 and 20 inches respectively from the glass and the two middle benches 4 feet wide with an 18-inch path between, having about 4 to 5 feet of head room. Wherever the paths are raised from the ground we nail a 6-inch board on either side to prevent the hose slipping off when watering. The house is finally finished with three coats of white lead, not forgetting the posts

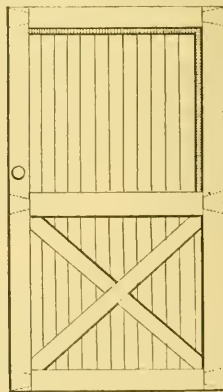


Fig. 4.

and the ventilating apparatus. We paint this white also; I can't keep my eyes off it when it is black. A house built in this way is tight, as there are no cracks for the wind to blow through. There is no use trying to warm up all outdoors, it doesn't pay. Stop up the cracks, or better still, don't build any."

ROBERT KIFT.



JARDINIÈRE FIG 1

Jardinières and Fern Baskets.

We are often asked for some suggestion concerning effective plants for jardinières; the accompanying illustrations, showing jars and baskets filled by a leading Chicago florist, give an excellent idea of tasteful arrangement. Figure one in our illustration had a beautiful little *Cycas revoluta* in the center; around it *Cyperus alternifolius* and *Polypodium capense*. Figure two had several dainty little *Cocos Weddelliana* in the center; they were surrounded by an erect growing *selaginella*. Figure three has *Phoenix reclinata* in the centre, surrounded by *Nephrolepis exaltata* and *Pteris magnifica*. The lighter foliage around the single large plant is very effective.

The two fern baskets are very good examples of these charming arrangements now so popular for table centers. Figure four is a round basket of pink celluloid, with a gilt border; the ferns are planted in a pan, slipped inside this. It contains four different varieties; *Onychium japonicum*, *Pteris cretica albo-lineata*, *Polypodium capense* and *Pteris magnifica*. Figure five is a round basket of filagree metal; it contains *Pteris cristata* and two varieties of *polypodium*.

The Columbian Exposition.

The nursery exhibit is not as yet greatly developed, though work is still going on energetically. The main exhibit will be in the Midway Plaisance, outside the grounds; soil is being put in order and roads are being made; planting will continue until the weather becomes too severe for outdoor operations. Ellwanger & Barry, Hoopes Bros. & Thomas, and other well known firms in this country have applied for large areas of space, and a good exhibit of fruit trees is anticipated both from eastern and western growers. These trees will be, for the most part, arranged as they would be in a nursery, without efforts at more decorative display, but it would be obviously unfair to arrange ornamental shrubs or trees in

this way. Holland will send an exhibit of magnolias, and other ornamental trees and shrubs are promised by Belgium, Great Britain and other European countries. Foreign exhibits so far are not so large in the nursery as the floricultural section.

A quantity of herbaceous plants from B. A. Elliott, of Pittsburg, are now being planted on the wooded island, and a further lot from Vilmorin, of Paris, is expected during the coming week. A quantity of freshly collected orchids from Guatemala have just been received; they were contributed by the Guatemalan government.

The huge mound under the dome is now completed and its arrangement will begin during the present week. The large building is expected to be in exhibition trim by the first of December, when it is to be opened to the public as a winter garden. The large number of fine specimen plants, together with the constantly changing variety of flowering plants, will, it is anticipated, prove a great attraction to the visiting public.

The pansies in the outside beds have not suffered so far, although the frost has blackened and destroyed the cannas. However, the pansies are protected by canvas each night, a slightly raised wooden bar at each end of the bed preventing the canvas from dragging on the plants.

When the plants are finally arranged in the large building some of the most interesting orders will be planted in groups, giving an opportunity for comparison. In the case of the *fecus* this rule will be followed, all being planted out. A great many euphorbias have been received; among them is one plant of *E. grandis*, perhaps the rarest euphorbia in cultivation; only three specimens are known to exist in this country. It is a native of the Cape of Good Hope. The Washington Botanic Garden supplied the specimen at the exposition. Some of the euphorbias are so strongly like cactus that even the initiated could hardly classify them at first sight; the only

absolute guide is the fact that no cactus has milky juice, while all euphorbias do.

A large allamanda was a recent addition to the vines trained on the wall of the main building; it is expected to make quite a fine show when established.

Exhibition at United States Nurseries.

The public exhibitions at Short Hills are among the most intensely interesting events of the year. At this season chrysanthemums naturally occupy the foreground. Encouraged by the success of their last season's introductions, among which were Harry May, Mrs. E. D. Adams, Mrs. J. Hood Wright, Hicks Arnold and others, which are already recognized in the New York market as leading varieties, no less than 30,000 seedlings have been produced this year. These fill 1,000 boxes, 30 plants in a box, and in their wide range of color, odd and fantastic shapes and variety of form and growth, alone furnish material for a whole day's inspection.

A noticeable feature is the extent to which the "hairy" blood has been distributed throughout the collection, this being so general that it seems as though it will not be long before it will be hard to get a seedling without more or less of this peculiarity. None of these will be exhibited or named until tested a second year, but there are numerous very promising varieties among them, the collection being particularly strong in fine yellows.

Among the introductions of last year Dr. Mandeville, Geo. Savage, Mrs. R. Benner, Mrs. J. Hood Wright and Mrs. E. D. Adams show up especially fine, the two last named, however, being now almost past. Annie Manda is in splendid form, the delicious fragrance of its feathery globes giving it an additional advantage over all its rivals.

The palm house is more beautiful than ever. The avenue of stately tree ferns has been increased by the addition of many wonderful specimens of *Dicksonia antarctica* and *cyatheas* in several species. Some of these giants are 20 feet high and measure 6 to 7 feet in circumference at the base of the trunk. The collection of palms embraces 250 varieties and is said to be the third largest in the world.

The Farleyense house and the araucaria houses are well worth a visit. There are 26 varieties of *araucaria* on exhibition, including the unique *A. Rulei Niepraski*.

The show of *cypripediums* is, however, the gem of the whole exhibition and must be seen, with its myriads of blossoms, to be appreciated. There is no end of new varieties and hybrids, among the latter being C. Niobe Shortkillense, between *Spicerianum* and *Fairacium*, C. regale *purpureum* and C. *concinnum* transparents, which well justifies its name, as the flower is almost as transparent as glass. A peculiar monstrosity is a plant of C. *Harrisianum*, which bears flowers each having three slippers. The peculiarity seems to be fixed, as it bloomed last year in the same way.

The orchid show house was bright with cattleyas, odontoglossums, vandas, etc., and the admonition "Please keep to the right" was a very necessary precaution in order to keep the throng of visitors in motion.

Do you want an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.



Bordeaux Mixture for Carnation Rust.

The old adage that an ounce of prevention is worth a pound of cure certainly holds good in regard to carnation rust. A great many growers have it more or less severely and those who have never seen it dread its appearance. A year ago its character was not so well known and it was greatly feared that it would prove as destructive and as baffling, possibly, as the violet disease. Such is not the case, however, and with most varieties it is readily controlled by the use of the Bordeaux mixture, which should be applied at its very first appearance, or even upon perfectly clean plants as a preventive. Where it has once taken a heavy hold and the plants are badly infested we would advise throwing them out. Though the formula has been many times printed, it is continually being asked for, and it may not be amiss to print it again.

Liquid Bordeaux mixture, as used at the experiment stations: 4 pounds sulphate of copper dissolved in 16 gallons of water, 4 pounds of lime (unslaked) in 6 gallons of water. When the sulphate is dissolved and the lime water is cold pour together and it is ready for use.

Dry Bordeaux mixture, as used by a noted Chester County grower: This is the best form for the cut flower grower, as it does not soil the bloom. 6 pounds sulphate of copper dissolved in 3 or 4 gallons of boiling water, stirring till thoroughly dissolved; with this liquid and just enough added water, dry slake one bushel of lime (different limes require a slightly varying quantity of liquid to slake them). Thoroughly dampen a tight wooden box and put in a layer of the lime and sprinkle with the copper solution till it falls into a fine dust. Put in another layer of lime and sprinkle and continue till the bushel of lime is reduced to a dry powder; sprinkle over the foliage.

Young plants in the spring that show touches of rust on being planted out in the open ground usually grow out of it and come into the house in the fall perfectly clean. It is then that the mixture should be used, applying the liquid form by means of a syringe on a dry clear day.

S. A. H.

Carnation Crosses.

II.

As was indicated by previous records, the color of the foliage is more likely to resemble that of the pollen parent, which is as we would expect from the last named law, and which might be more comprehensively stated as follows: *The form of plant resembles the female, the color of foliage and flower the male parent.*

From a pod of seed, Wm. Swayne X Aurora, having a record of 39 plants to flower, 18 resembled in general growth Wm. Swayne, the depressed stems being noticeable; 8 resembled Auroran growth; 13 bore no marked resemblance of growth to either parent. A noticeable point in nearly all the double flowers of this lot was that the flowers were very full in the center, a prominent characteristic of Wm. Swayne, and not found in Aurora. Sev-



JARDINIÈRE. FIG. 2.

eral of these plants showed a growth of foliage found in Century, one of the parents of Aurora, but not found in Aurora, that is, the heavy thick foliage with tendency to curl under at the ends of the leaves, and several had flowers the color of Century.

In another lot of three plants with Aurora as pollen parent, two plants had the same habit and this feature is noticeable in plants not yet bloomed having Century for pollen parent. Similar occurrences are found in the animal kingdom, children resembling a grandparent and not a parent, and I believe deformities frequently skip one generation to appear in the second.

Of the 39 plants above mentioned 24 bore flowers varying from light pink to Century color; three only were white and 12 were of other shades, mostly scarlet. This gives a large proportion of flowers following the law.

In another lot of three plants, Wm. Swayne X Pride of Kennett, two resembled Wm. Swayne in growth of plant and two bore flowers the color of Pride of Kennett. The third plant bore flowers totally different from either parent.

From another pod, Wm. Swayne X a single-flowered pink seedling of vigorous upright growth, five plants were grown; three resembled Wm. Swayne in growth, one only was of upright vigorous growth, one had pink flowers, one was white, two were variegated and 1 failed to bloom.

This was the only crop of 1891 in which a single flower was used for pollen parent and the result proved quite unsatisfactory, none of the offspring being equal to the pod parent. This should not, however, be taken as against the use of single flowers in the production of seed-

lings, as numerous instances bear witness to their successful use. In this particular case there may have been some incompatibility of habits to account for the failure.

C. J. PENNOCK.

Seasonable Hints.

Flowers will now begin to make their appearance. Of course those housed early will be making abundance of bloom long before this, but our aim is to have the bulk of our crop during the holidays and through the winter months. In any case they should be carefully gathered and shipped. Carnations have the advantage over many other flowers, as they can be held longer on the plants. It is not necessary to ship more than once per week. Even when the product increases and it becomes advisable to ship oftener the blooms that are fully open or nearly so should alone be taken. A fully expanded flower of the carnation is not only more beautiful than one half blown, but will also keep longer and carry better. The demand being for long stems almost entirely, with the exception of the white kinds, we sacrifice the side buds and cut the stems well down in the foliage. But one must use his judgment in this particular, for in many cases it pays better to lose the terminal bud or send it when open as a short stem. The lateral buds will then usually open together, forming a fine spray of several flowers, all counting as long stems.

Some growers practice disbudding and it may be well to remember that this may be practiced in two ways. First the plan above referred to of taking out the terminal bud, and the rule is not to take it away until the buds below have attained



JARDINIÈRE. FIG. 3.

some size, else the one next below will take its place and develop faster than its partners, the idea being to have a good spray of equally expanded flowers. Our own idea is that we would get just as good a spray by allowing the end bud to bloom, which can then take its chances of being sold as a short stem. The second plan is to take off the lateral buds, leaving the terminal only. This undoubtedly increases the size of the flower and it is contended by those who practice this method that they get nearly as many flowers, for the plant throws up more stems from the base. There is perhaps some truth in this, but it is a matter demanding more investigation and experiment. In our own case we mostly lose the lateral buds anyway and the only question is whether it will pay to pick them off by hand (which would be an interminable job), considering at the same time the increased value of the flower. There is this to be said in favor of leaving the buds on—they add greatly to the beauty of the carnation.

Avondale, Pa. W. R. SHELMIERE.

Lifting Carnations.

Mr. Shelmire's article with the above title voices very fairly the general impression on the subject in this locality.

It is the view that I have held for some years, with this proviso: If the plants must be lifted. Now, supposing this to be true, we have this condition of things: One writer high in authority (Mr. Lombard) advising no ball with the plants, another equally high (Mr. Lonsdale) advising the ball; one grower planting early, another late; one shading heavily,

another not at all; and all equally successful, or unsuccessful, for I believe there can be no full measure of success in the practice.

I have had some experiences within a year that tend to contradict the theory expressed by Mr. Shelmire. Last fall I bought some Mrs. Fisher from Mr. Lombard. They came so full of buds and flowers that I hesitated whether to plant them in that condition or top them. I finally decided to plant them as they were, and they bore the moving wonderfully, with small loss of plants or buds. Again, being short of plants I lifted from the garden where they had been blooming since July several hundred *Portia* in full flower, thinking to throw them out later. They were the best *Portia* I had, made more flowers and better ones and stood the lifting best.

This fall I had two seedlings of which I was quite "choice." About 100 plants of one of them were allowed to bloom in the field, several hundred more were closely topped. All were moved with the same care and under similar conditions. There was about 1 or 2 per cent loss in the blooming ones, 30 or more in the topped ones. Another seedling was allowed to bloom throughout in the field and was moved with a loss of about 1 per cent.

After an experience of 13 years in handling carnations I do not know to-day whether they should be lifted with soil or without, whether early or late, topped closely or in bloom, shaded heavily or given plenty of light, and in a multitude of counselors there is (no) safety. I am strongly inclined to think all the methods evil, differing chiefly in degree, and that

Mr. Ward has struck the key note when he says, substantially, that no plant should ever be transplanted. If he is not willing to express it so radically I am, for I feel well convinced that it is always an evil, ameliorate it as we may.

EDWARD SWAYNE.

Disbudding Roses.

EDITOR AMERICAN FLORIST:—In your issue of October 20 "Enquirer" asks a question which I think could be discussed in your valuable paper with benefit to many of us who grow roses. In my own experience I have come to the conclusion that disbudding *Mermet* and *Bride* is an injury rather than a benefit for the simple reason that by doing so we get a large quantity of useless weak wood, which in my opinion will never produce first-class roses. Therefore I think it better to let the buds partially develop and cut down to harder wood, which will surely give us better roses, if not so many. Quality, not quantity, is now the demand.

HUGH CHESNEY.

Farmington, Conn.

Packing.

The proper packing of goods for express shipment so that they will reach the purchasers in good condition and at least expense for transportation is a subject of the greatest importance in every branch of our business, yet one which receives probably less attention in proportion to its importance than any other.

To tumble goods into a box any way and get rid of them as quickly as possible seems to be the rule with many shippers. To be convinced of this one needs only to stand for a little while in a wholesale florists' establishment or other place where cut flowers, plants or bulbs are being received in quantity from various sources and keep his eyes open.

Sometimes the goods are jammed down into a box one-half the necessary size, as tightly as though they had been subjected to hydraulic pressure. Another lot will come in a crate so out of proportion the other way that there is vacant space sufficient almost for a small family to set up housekeeping. One party recently received from abroad 13,000 tritomas all packed solid in a single case, without division of any kind. Their condition upon being unpacked can be imagined.

In such instances somebody has to stand a heavy loss. The receiver is innocent, but it is too often thrown upon him, and the fruit of the resultant correspondence is apt to be angry controversy, litigation and strained relations extending often for years. But in the long run the careless shipper must bear the consequence. Goods originally first class are quickly ruined by reckless handling and packing, and customers once disappointed go elsewhere. This business reputation is soon lost, and once lost is hard to regain.

To become a thoroughly skillful packer, especially of green plants, requires much time and experience, but it is an investment that will pay for itself in the long run. An establishment where proper attention is paid to this department can always get a better price for goods, particularly after buyers have had a disastrous experience or two elsewhere. There has been much discussion from time to time as to the benefits to be derived from a school of horticulture. It would seem that if such a school did little else for a time but to turn out young men thoroughly posted in the best methods of

packing and shipping all classes of goods handled by the florist trade this alone would furnish a good reason for its existence.

New York.

Cut flower trade continues in a very depressed condition. The wonderfully fine weather, which keeps people out of town is largely responsible for the condition of things. Bleak November, when it comes and drives home the sojourners in the country and at the seaside, may be depended upon to give business the necessary impetus. It is fortunate that the deluge of roses experienced during the unusual warm spell last week has passed by, for with the quantities of chrysanthemums now coming in an overstock of roses at present would make things infinitely worse. Roses are not at all plenty and if the growers are wise they will do all they can to hold back their crops for several weeks yet.

Chrysanthemums are superb. At Theo. Rochrs' were seen Wanamakers grown by Julius Rochrs, which were marvels of perfection. In all the large wholesale establishments superb blooms of this variety, as well as Rohallion, Jessica, Ivory and others, are to be seen. The practice of coloring flowers artificially has been applied to the chrysanthemum, with the result that Ivory masquerades in several Broadway windows in a dress of loveliest satiny pink, and for the moment creates quite a sensation. The practice cannot be too strongly condemned, however, and the refusal of certain florists to have anything to do with such stuff is most commendable. The effect of such artificial coloring cannot but be most injurious to the chrysanthemum trade in the immediate future and if carried on to any extent will subject the flower business in general to well merited ridicule and contempt.

Violets are improving in quantity, and prices are holding up well. Carnations are in full supply and lily of the valley a little overstocked, especially in the second quality stock. The first Roman hyacinths and paper white narcissus are now in. Cosmos, poor cosmos! when a barrel of it is seen coming into a wholesale establishment it is at once unceremoniously kicked out into the street, there to remain until the pitying garbage man comes along and gathers it in.

The New York City College of Pharmacy has recently acquired by purchase the great herbarium collected by Mr. W. M. Canby of Wilmington, Del. This collection took 34 years to complete and is in some respects the most valuable herbarium in the world.

Among the victims of Samuel Mitchell, arrested here on October 17 for forging, was the firm of Peter Henderson & Co., from whom Mitchell secured \$50 on a bogus check.

The artificially colored green carnation has cropped out again here, and according to a glib New York newspaper, "is now the correct thing for the button-hole."

The pictures which adorned the walls of the new rooms of the N. Y. Florists' Club were kindly presented by Mr. S. C. Nash and Mr. Rob't B. Young.

Mr. Alex. Buras is said to have had an addition to his family in the shape of another daughter, but he is very quiet regarding it.

A HOUSE WARMING.

The evening of October 28 marked the beginning of a new era in the history of the New York Florist Club, for then it



JARDINIÈRE. FIG. 4.

took formal possession of its new home. No one knowing the club's history can help congratulating it upon its prosperity or wishing for it a long and successful career in its new surroundings. It has surmounted obstacles to which almost any similar organization would have succumbed and which would have crushed it if it had not been for the determination and pluck of a few of the members. These have especial cause for pride as they see the organization reaping the reward of their faithfulness.

The new headquarters is a commodious parlor at 20 West 27th street, close to Broadway, well lighted, and with abundant room to seat one hundred or more.

A postal card announcing that a special meeting for the purpose of viewing the new rooms would be held at 8 p. m., Oct. 28, was sent to the members. All day long Mr. John Young, Mr. C. B. Weathered and Mr. Theo. Rochrs, members of the committee on rooms, worked hard preparing for the opening and when they had got through surveyed their work with pardonable pride. A bright fire glowed in the open grate, handsome pictures adorned the walls and on the mantels large vases of chrysanthemums gave the proper floral finish. In the rear parlor a tempting collation was in readiness. The meeting was informal, but most enthusiastic, and plans for raising funds to meet the additional expense were discussed, an increase of annual dues and a sale of keys to members being favored. After a few pleasant remarks by various gentlemen, the lunch came in for its share of attention. Everybody was in the best of spirits, all remaining till a late hour. Members of the fraternity visiting New York during the chrysanthemum show and at other times will be cordially welcomed to the rooms and invited to make themselves at home.

Boston.

This has been a phenomenal fall. In many localities the severe frosts have held off so that many outdoor flowers

are blooming with undiminished vigor. Cosmos seldom succeeds here, as it is almost sure to be cut down by early frosts before getting a fair chance to bloom. But this year it has had a full season. Anemone Japonica is still in fine condition, and nasturtiums, salvia, marigolds and zinnias are bright with blossoms.

The influx of chrysanthemums has had the customary depressing effect on the general flower market. Carnations have dropped in price, but singularly enough, asters, of which there are quite a number still offered, hold out at good figures. Violets have shortened up considerably and sell readily. The first Romans and narcissus are beginning to appear.

There will be quite a delegation of Boston growers at the New York chrysanthemum show judging from present indications.

Peck & Sutherland have made extensive improvements in their establishment, the new furnishing adding much to its appearance as well as convenience.

The long-talked-of Exchange has finally secured acceptable quarters and will be in operation soon.

John Reid, an old and well known florist of Everett, Mass., died of pneumonia on October 29.

Geo. B. Gill is reported as very ill with typhoid fever at his home in Medford.

Chicago.

At the last meeting of the Florist Club officers for the ensuing year were elected as follows: President, P. J. Hauswirth; vice-president, Edgar Sanders; secretary, T. F. Keenan; financial secretary, Hubert Maas; treasurer, E. Weinheber; trustees, G. L. Grant, J. T. Anthony, J. D. Raynolds, A. McAdams, J. F. Kidwell. Three applicants were elected to membership. The club enters upon its seventh year with every prospect of increasing its usefulness to the craft in this city.

The revised premium list of the Horticultural Society has been issued and it



JARDINIÈRE. FIG 5

contains a large number of very attractive special prizes offered by prominent citizens. Copies may be had on application to the assistant secretary, Mr. P. J. Hauswirth, 318 Wabash avenue. Entries must be on file with him by the 7th inst. Secretary Egan has been called away by imperative business and is now in Colorado, but will be back by the time for opening the exhibition. The newspapers are already bestirring themselves about the coming event, and the exhibition will certainly be very fully reported in the daily press. Special prizes of \$100 each are offered by both the *Herald* and the *Inter Ocean*.

Space has been secured by the Cut Flower Exchange on the second floor of the Hayes & Tracy building, 45 and 47 Lake street, where business will begin as soon as the place is fitted up. The place secured has a floor space of 156x33 feet and has large windows both on Lake street and on a wide alley running by the Masonic Temple. The Exchange will put in five large arc lights, giving abundance of light even in the darkest weather. There is some talk of auctioning off the spaces at first, thus giving people a chance to secure any special positions they may desire. The same system of renting by the foot, as followed in other markets, will be the rule here. It is also proposed to sell membership tickets to people desiring to do business in the Exchange without becoming stockholders, just as they do in the Board of Trade.

The commission firm of McKellar & Sperry will be dissolved shortly, having been bought out by the syndicate of Niles Centre growers, known as the Niles Centre Floral Co. Mr. Sperry retires from the commission business, while Mr. McKellar has been secured as manager for the Niles Centre syndicate in the Cut Flower Exchange. The progress of the syndicate will be noted by the trade with a good deal of interest, as it is an attempt to bring producer and retailer together, without the intervention of the commission man. The growers propose

to pool their stock, first grading it into first, second and third quality, and shipping the whole lot together in bulk to their representative at the Exchange, by which means he will have no knowledge of whose stock he is selling. The sales of each grade are then to be divided pro rata among those who supplied stock of that grade. The outcome of this department is looked forward to with much interest.

There is little or no change in the market since last week, except that outdoor stuff is entirely done, and there is a slight decline in chrysanthemums. Some of the finest blooms sell for \$25 a 100, and plenty of good flowers run from \$10 to \$20, but, as usual, chrysanthemums with no merit are just given away. There is quite a good demand here for flowers in sprays, as well as for fine individual blooms, but the sprays must be good. Few colors are in except white, pink and yellow.

Violets are not plentiful and are in good demand. Roses are good; the best demand is for Brides. Beauties are not plentiful. Carnations are better in quality and are much called for; they seem still likely to continue scarce. Chrysanthemums, roses, carnations and violets are about the only flowers now to represent the market.

Philadelphia.

The glut is on; it has been prophesied for some time and is here in all its glory. There are too many chrysanthemums, or "weeds," as some rose growers are wont to call them, and there is too much of most everything else as well; chrysanthemums, roses, carnations, violets, all suffer alike.

Philadelphia growers, however, seem to be different from those of other cities. They carry their stock around, ask what they think it is worth, and if at the end of their route there is any left it is taken home again. Perhaps this is better for all concerned; if good roses were sold at \$4 per 1000 in Philadelphia every fadir

in town would load up and things would soon be in a pretty mess.

Many of the growers of chrysanthemums find fault with the varieties they have under cultivation this season, seeing faults in this or that kind they had not noticed before. The principal reason for this is that the standard is being raised so high that as much care must be taken in selecting the varieties to be grown as in raising them afterwards. The following seem to be the best selling so far: Mrs. Whildin, yellow, like *Glorioso* but a better flower; Eldorado, a very fine incurved bright yellow; Jessica; Ivory; Advance, large pink; Minnie Wanmaker, Ada Spaulding, Hicks Arnold and Rohallion. Lincoln and Widener are just coming in, and these, with a host of other later varieties, promise to be very fine.

Many inexperienced growers spoil fine blooms by cutting them before they are ready. There is no occasion for this, as they will sell better after a while. But it is the same with a great many other flowers. It requires some experience to know when they are ready to cut. Many Beauties and other large roses are sent to market so tight that the color is all gone before the bud opens, if it opens at all. Carnations too are often picked when only about half the size they would be if left on a day or two longer.

There are all sorts of prices asked for chrysanthemums; the best bring \$20 and from this figure all the way down to \$1 a hundred.

Evans Bros. have been cutting some magnificent flowers, by far the best that have ever come to this market in quantity. Harris, Craig, Heacock and Anderson are also sending in some fine stock.

The florists' windows are a sight, great vases of choice blooms making masses of color such as is not possible at other seasons of the year. The windows don't begin to hold them all, however, and they are to be seen set about on the floors and on the counters, in fact each store seems to be a chrysanthemum show in itself.

Roses are very plenty and fair in quality. Burton, who has just commenced to cut, has some very fine Beauties and his other stock is above the average. The houses of his new pink Beauty are a sight; it is certainly a fine rose.

Prices of roses and carnations hold up pretty well. Roses are about the same, but carnations have fallen back to \$1 for the best, which is doing very well considering the quantity that is offered; they are better in quality than we remember to have seen before at this time of year, and pink, a color that has always been scarce in this city, seems very plenty, Grace Wilders predominating.

On November 1 Mr. A. L. Pennock will sell at his place at Lansdowne a house of camellias. They are quite large plants, trees in fact, as they have been growing in the ground for about 15 years. This is the "last of the Mobians," the collection being the only one in Philadelphia. When in their glory they have sold for \$5 a single flower, and it is a question if the plants will now bring that figure. "How are the mighty fallen!"

The entries for the show give promise of something grand. There will scarcely be room in the hall for the exhibits offered.

The game at the alleys on Thursday night last resulted in a victory for the Delawares, who also broke a record, making 990 pins in one game. Westcott won the game for his side, his score being 553 for the three games. K.

Washington.

The florists of this city have no grounds for complaint so far regarding fall trade. I think they have as much business, if not more, than they did 12 months ago. Stock is as good if not better. Wedding and funeral orders have been above the average.

Referring to fault finding and complaints, yesterday I heard one of our leading florists say that he thought as a rule the florists complained of "nothing to do," "no trade," when there was no cause for it; yet these same fault finders continued to erect houses and purchase cut flowers for their stores and they continue to pay high rents and do business at their old stands. This seemed to puzzle him. He came to the conclusion that they either had money or they were making a fair living. He was of the opinion that the latter was correct; in his case it was true, for he always had a fair trade and was making a little money over and above his unning expenses.

Chrysanthemums are coming in fast; quality very good, demand excellent, price fair. Roses and violets plentiful, quality of both good and selling at good prices. Carnations are coming better and trade good. Weather continues very dry, making it difficult for those having plants to lift; they can get no ball to them except by thoroughly soaking the ground over night, and in many cases this is impracticable, not having city water on their premises.

The sad death of the president's wife was the cause of many orders for funeral designs, some florists being kept busy day and night. Mr. C. F. Hale made a very large and handsome wreath composed of Mermets and Bride roses—an exquisite piece, an anchor of violets and adiantum—very fine, and numerous other handsome pieces. Such a profusion of flowers was never before used at a single funeral in this city. When the doors of the east room were opened to admit the first arrivals the scene was touchingly beautiful. The chandeliers cast a flood of mellow light, the windows having been darkened. The mantel-pieces were banked with ferns and flowers, at each end being a large palm. Around the casket were grouped a wealth of floral offerings. These filled a large space on either side of the casket. At the head stood a cross made of white chrysanthemums, from the angle of the cross hung a wreath of yellow chrysanthemums, and against the base rested another of American Beauty roses. At the foot was a massive crown composed of white and pink chrysanthemums and Bride roses, resting upon a bed of violets, very handsomely made. On the end of the casket rested a wreath prepared at the White House, it was composed of orchids (Mrs. Harrison's favorite flower) and white roses. The floral pieces that surrounded the casket were in every known device and the profusion was unequalled. They were composed of the richest and most choice varieties of flowers, orchids, chrysanthemums and roses predominating.

Among the emblems most worthy of notice were the following: Wreath of chrysanthemums from Queen Victoria, a mammoth wreath from the diplomatic corps, composed of chrysanthemums, Bride roses, pink orchids, ferns and palms tied with three bows of broad heliotrope ribbon, on one of which was inscribed "The Diplomatic Corps;" wreath of large chrysanthemums surrounding a bunch of loose blooms, from the Cabinet; cross of ivy leaves and chrysanthemums; wreath of ivy leaves, chrysanthemums, what

sheaf, palm leaves and violets; wreath of chrysanthemums and palms with black ostrich tips; wreath of pink and white roses; wreath of roses; wreath of chrysanthemums, lilies of the valley and roses; immense shield of white chrysanthemums and roses; wreath of large pink chrysanthemums; wreath of white roses; wreath of violets; pillow of roses, lilies of the valley and chrysanthemums, and cross of ivy leaves. After the services the flowers, or as many of them as could be carried in two large wagons, were taken to the station and placed with the casket in the observation car of the funeral train.

The majority of these were arranged by Messrs. J. H. Small & Sons in their most artistic manner. One of the handsomest (yet not the largest) pieces arranged by the Messrs. Small I think was a wreath about 2½ feet in diameter composed of five dozen pink chrysanthemums, two dozen pink cypripediums and six dozen large heads of mignonette. This was one of the richest looking arrangements among the 42 pieces arranged by this well known firm.

Numerous other pieces were made by J. R. Freeman, Gude Bros., Studer and C. Strauss & Co. In fact all were busy for two days and a night.

The death of Mrs. Harrison naturally gives rise to speculations as to what plans the Cabinet circle will adopt in reference to their season's entertaining. This is the question now discussed by a majority of our florists. Looking at it from a strictly official point of view the Cabinet officers are ranked as members of the Executive family and must in all matters of etiquette be influenced by the action of their chief. Naturally the wife is thus governed by the position of her husband and a certain period of official mourning prescribed; 30 days is the period fixed in all cases like the present. As Mrs. Harrison's death occurred during a season of freedom from the heavy social obligations of the ordinary official term the mark of respect will in no way affect society at large. Whether or not the ladies of the Cabinet will be called upon to fulfill the usual social obligations of the winter is at present a debatable point. Were the ladies to follow their personal preferences in the matter there would be no formal entertaining during the coming season, as some of them enjoyed a warm personal and private regard and previous acquaintance with Mrs. Harrison. Yet most concerted action is necessary under the present circumstance, and the trade is looking forward to their action with considerable interest.

C. LESLIE REYNOLDS.

Baltimore.

The attendance at the club continues large and every item of information regarding the exhibition and the work of the different committees is received with great interest. The members were considerably elated to find that the fame of the show had reached some distant points, as letters received offering premiums and others desiring to be allowed to compete testified; all were referred to the committee.

Brother Wagner (Jno. L.) has gone and done it at last, and to testify their appreciation of his act, as well as to try and encourage some of our rusty bachelors to "go and do likewise" the boys sent him a handsome present.

Mr. Jno. Berl had on exhibition a very pretty seedling chrysanthemum, seemingly a full blooded Japanese, pure white, six inches in diameter, and, though the

number of desirable varieties and the standard of excellence is already so high, apparently well worthy of a name.

Pres. Fraser and Messrs. Jno. Halliday and Wm. Feast constitute a committee to receive the judges and care for their happiness during their stay with us.

An invitation was extended to the only other floricultural society in the state, that of Frederick, Md., to come and enjoy Baltimore hospitality during the show.

The chrysanthemum is everywhere, but the most of those worn on the streets are far superior to the "mums" of past years. Where a bunch of a dozen or two used to be displayed by fair promenaders, two or three, or even one, of superior size is abundance now, in fact small or poor flowers seem to be the exception rather than the rule this year.

Another thing that seems destined soon to be the exception rather than the rule is gas lighting in florist stores, as electric lights are now to be seen as far up as Klein's at 947 Madison avenue.

The Exchange is going through a little internal struggle, something similar to the last one, a kind of growing pain that is inseparable from rapid growth. The constitution and by-laws not being sufficiently definite with regard to the duties and powers of the board of directors and manager, the latter refused to obey orders from the board, whereupon they discharged him and he refuses to go. It is to be hoped that all will be settled amicably and that the weak places in the rules will be strengthened.

If any man thinks he knows somewhat of roses, let him spend a day at Mr. Anthony Cook's place, 1124 West Mulberry street, and find out how little he does know. Mr. Cook is an enthusiast on the subject of seedling roses and seedlings of all kinds. He wears his 73 years lightly, and, in the 35 of them spent here has seen the land around him change from country to commons and from commons to solid blocks of brick dwellings for a mile beyond him. His place is principally planted, outside of the glass, with stock plants of different roses, in a most interminable and bewildering variety; sometime his views on the most interesting points in connection with them will be given, but space would not suffice now. The best known of his seedlings is the rose Cornelia Cook, of which he has not a plant now in his possession. But he has the original plant of the lantana Lizzie Cook, which is 25 years old, in one of the houses, and several other meritorious things in the way of seedling varieties, of which more anon. One thing noteworthy is the fact that *Draecena indivisa* is hardy with him, having survived the past two winters planted outside.

MACK.

Toronto.

Trade, though still pretty dull, is gradually improving. There has been no really severe weather yet, and in many places geraniums are still flowering outdoors.

A puzzle: Find John Thorpe in the Courier Co.'s chrysanthemum show lithograph of last year. It is in the large white bloom in the center.

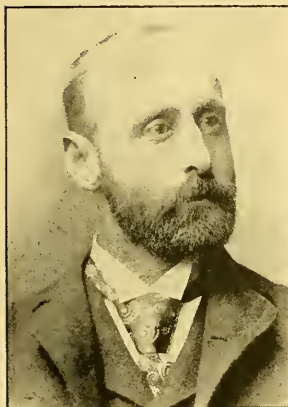
Chrysanthemum show business is rushing just now and so far as one can see everything points to the best on record. The club has gained lots of experience since starting in the business and is able to set the ball rolling with much less trouble and more effect. The secretary was appointed superintendent and he



W. C. BARRY.



H. A. SIEBRECHT.



JOHN C. MONINGER.



HENRY NANZY.

A FURTHER INTRODUCTION

again has appointed two assistants, one for plants and the other for cut flowers, and it will not be their fault if the rules are not carried out to the letter. The florists' competition promises to be a drawing card.

Some very fine roses are coming in now, also some fine chrysanthemum sprays, but there is very little money in the prices of the latter for the grower. Chrysanthemum plants are getting plentiful and good stuff sells well; poor stuff sticks fast and gets poorer every day. E.

Paris, 1878; Chicago, 1893.

What would be the probable cost of ten days in Chicago during the World's Fair next year to a gardener with not more money than he knows what to do with, in order to keep himself supplied with the necessities of life and a little for recreation. It may be interesting to some of your readers to know what ten days in Paris, July, 1878, cost the writer. In

September, 1877, I sailed from New York for Havre and began working for Messrs. Tranoir Freres of Orleans, who have probably the largest nurseries in France, for the purpose of learning the business, at 2½ francs the day of 12 hours, 15 francs a week if no time was lost. In July, '78, I and a German fellow workman bought tickets for London, after which I had 25 francs left, and my friend had about 30 francs. We found lodgings at a comfortable little auberge in Passy (Paris) about a mile from the exposition and stayed ten days, getting our breakfast and dinner (6 p. m.) at the auberge, lunch wherever we happened to be at the time. Four whole days we spent at the exposition; on the other days we visited all the parks and the principal public buildings, most of the rose growers in the environs, taking trains and street cars when necessary, saw a big review in the Bois de Boulogne of 60,000 troops, went to the great hippodrome and a theatre or two, and, in fact, saw everything

worth seeing (there is something to see there, too). When we reached London we had enough money left between us to pay cab fare across the city to another depot, have a square meal and buy tickets to my old home 120 miles further on. All that for a little more than \$10 between two. I think I can safely say that I never got so much for so little before or since, and I scarcely expect to do Chicago so cheaply. If you would give an answer to the above question it would oblige many of your readers. A. H. EWING.
Toronto.

Cemetery Superintendents.

The sixth annual convention of the Association of American Cemetery Superintendents was held at Baltimore September 27, 28 and 29. Many valuable essays were read and discussed, and the cemeteries and parks of Baltimore were visited. Officers for the ensuing year were elected as follows: President, William Salway, Cincinnati; vice-president, T. McCarthy, Providence, R. I.; secretary and treasurer, Frank Enrich, Toledo, O.; executive committee, A. W. Hobart, Minneapolis; J. H. Shepard, Chicago; J. M. Boxell, St. Paul.

"Cads."

Although I took exception to the previous letter of "Pessimist" anent educational matters, I endorse, and emphatically endorse, every word he says in your last issue. I have had a considerable experience with parties who deem themselves gentlemen, but who are far more fitly described by the little word at the head of this letter. I have never for a moment refused a fight to a finish with one of these miserable creatures and I have had to do it single handed and keep the heads of a helpless family above water all the time. Just as is said by "Pessimist," these American gentlemen seem to rely upon their power to injure, or their power to own. If a gardener objects to being owned, they will be sure to deliberately try to injure him by telling of some failure of crops, that he could not "grow" this, that or the other. Why, one of the most notable commercial men this country knew a few years ago once attempted to disparage an old friend of mine, now deceased, not knowing he was my friend, and when I opened vigorously and promptly in defense, crawlingly insinuated "that L—n could not grow everything." Bah! education, which is knowledge, will squelch these miserable cads every time, if the gardener has courage to dare and do, especially if he has the courage to hold up his head on an empty stomach and is honest and truthful beyond peradventure, no power on earth can keep him permanently down. "Pessimist," I am writing in the light of an experience, which I have often thought I would give to the world in the shape of an autobiography. I am sure, after travelling over three parts of civilization, that I have met some of the most miserable creatures among those who have inherited money from their hard working fathers, that can be produced among any people, white, yellow, red or black.

Perhaps you will ask me the remedy the gardener has; my answer is to the young fellows—educate yourselves as well as you can and learn some good handicraft in addition to gardening. This is the course I am impressing upon my own boys; they are learning a trade which pays \$20 per week to good bench hands, and I feel that they will be even more

independent than I have been. Unfortunately one of my specialties is not in demand here at all, and the other not very much. If they were in demand no power of money or hope of reward could induce me to serve another of the mushroom aristocracy of this country as a serving gardener.

"Pessimist" should do as I am trying to do—rent, work on shares, work on contracts, work on any terms; but work as a serving gardener without an agreement—never, unless it be to save a family from starving, and not then if he can do anything else. JAMES MACPIERSON.

Pessimism.

I should not have deemed it worth while to reply to "Pessimist's" latest production if he had not in one place at least misrepresented what I said in a former letter to you. I did not claim that our profession was in need of "manufactured" gardeners as helpers; I did say that it was in need of better practically educated men, and I say so still. "Pessimist" says that such employers as he refers to could be improved by colleges if they would take a term there themselves, but as they won't go to college perhaps it would be as well to let them die out and improve the young ones who will take their places. "Pessimist" is making a mountain out of a mole hill. I would not deny that there are some employers fashioned somewhat on the lines he complains of, but they are a very small minority. I should advise "Pessimist" to take a course of digestive pills (one at each meal), after which it might have a good effect if he would examine into what the large majority are doing. I would also advise him to shun the profession of prophet; one is so very apt to get left unless divinely inspired, and his writings do not give one the impression that he has had any outside inspiration. "Pessimist" also says we are doing nothing towards improving and elevating our profession. Well in my humble opinion better education is the only way to elevate and improve it, but perhaps "Pessimist" can suggest some better means; if so it would be a pity but what he should let us all know it. A. H. EWING, Toronto.

News Notes.

COLUMBIA, S. C.—A chrysanthemum show in aid of the Columbia Hospital will be held here on November 3 and 4.

HARTFORD, CONN.—The chrysanthemum exhibition of the Hartford County Horticultural Society will be held on November 9, 10, 11.

PT. EDWARD, N. Y.—Hilfinger Bros. are rebuilding their pottery and will make the new factory much larger than the one recently destroyed by fire.

IRONTON, O.—This city will have a chrysanthemum show November 2 to 5 inclusive. Over 5,000 chrysanthemums will be shown at the new Memorial hall, in addition to other flowers.

INDIANAPOLIS, IND.—Many beautiful flowers appeared at the funeral of Mrs. Harrison here, roses and chrysanthemums predominating. They were chiefly arranged in wreaths and bouquets, the grave being covered with bunches of chrysanthemums.

SHARON, PA.—Albert Williams has disposed of his business and retired. His

son-in-law, Henry Turner, will do business at the old stand, discontinuing the catalogue trade. The chrysanthemum show is booked for November 10, 11 and 12 and promises to be a success in every way.

YONKERS, N. Y.—During the past week there has been a chrysanthemum exhibition in aid of the Home for Destitute Children, at the greenhouses of Mr. Jas. B. Colgate, Richard Brett gardener. The greenhouses cover nearly two acres and the entire establishment was open to the visitors, who were very numerous.

BUFFALO, Wm. Scott has a lot of neat little chrysanthemums in 5-inch pots, well budded and furnished with fine foliage to the bottom, which he says have been grown according to directions given him by Messrs. Craig and Harris of Philadelphia. They were planted about June 15 in the old soil on a carnation bench and potted September 1. They retail readily at \$1 each.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young sober German gardener, at a private or wholesale place. Address: SCHULZE, 106 Greenwich St., New York.

SITUATION WANTED—By lady, in florist store. Have several years experience as floral artist. Address for two weeks: MARTHA HEATH, Johnstown, Pa.

SITUATION WANTED—By a single man (Holander), age 28, in commercial place; some experience in bulb forcing, not afraid of hard work. Address: 325 E. 5th street, New York City.

SITUATION WANTED—By a florist; experienced in landscape gardening, cut flowers and vegetables; age 28 years, single. German place preferred. Address: PETER PAUL NEWALL, 270 E. Federal Street, Youngstown, Ohio.

WANTED—Correspondence with a New England rose grower for a supply. W. A. LEE, Burlington, Vt.

FOR SALE—Florist's business at a bargain; 5 houses well stocked; best location in city of 15,000. Address: W. M. MILLER, Chilledale, Ohio.

FOR RENT OR SALE—Florist store and two greenhouses 12x30x10 feet, fully equipped with stock and fixtures. H. R. HUGHES, 630 Van Buren, Chicago.

FOR SALE—Nine greenhouses containing about 10,000 feet of glass, stocked with carnations and heated by steam; grumpy 80 feet long just coming into bearing, recently built; 30 acres of land; a abundance of fruit; large house containing 15 rooms, new barn; within 15 miles of Philadelphia and one mile from station. Will be sold on account of ill health. Possession any time. Address: ISAAC LARKIN, Toughkenamon, Chester Co., Pa.

FOR SALE.

In Andover, Mass., 5 greenhouses and ½ acre of land. Land alone taxed for \$1,000. Greenhouses well stocked with roses, violets, carnations, chrysanthemums and bedding stock. Good road track; 21 miles from Boston; hourly trains; 2 minutes walk from railroad depot; a block distant from electric cars. Address: Box 372, Andover, Mass.

FOR SALE.

5,000 GOLD FISHES, all sizes, from 3 to 10 inches. For price, etc., address:

LITTLE SWITZERLAND FLORAL CO., Atlanta, Ga.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best standard and New Kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. PENNOCK, The Pines, Kennell Square, Chester Co., Pa.

Correspondence wanted with parties desiring a regular supply of

FANCY CARNATIONS, DOUBLE AND SINGLE VIOLETS.

J. THOS. DEWITT, Bristol, Pa.

PANSY PLANTS

From First Class Seed, 75 cents per 100, \$5.00 per 1000.

Contracts made for carnation cuttings from 25 leading varieties.

JOHN A. CONNELLY, Bryn Mawr, Pa.

LAINGS' BEGONIAS

7 Gold Medals and 2 Gold Cup Coll. etion Have been honored with Another Gold Medal at the International Horticultural Exhibition at Earl's Court on October 5th, for a large and magnificent Bank of Double and Single plants.

AN UNRIVALED SUCCESS FOR THE "PREMIER HOUSE."

2 Gold Medals, Aug and Oct., in Open Competition. Evident proof that we are the Premier House.

Orders now being rapidly booked for delivery as dry tubers. Please send in yours at earliest. We will not be undersold, so please affix prices when sending order, and we will confirm by cable. Our private code free on application.

DOUBLE AND SINGLE SEED JUST HARVESTED.

Gloxinias, Caladiums, Achimenes, Clivias, etc., in quantity. Catalogue and full directions mailed free.

JOHN LAING & SONS,

Begonia Specialists, Seed, Plant, Bulb Merchants, etc.

FOREST HILL, LONDON, ENGLAND.

Mention American Florist.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

300,000 PANSIES—EXTRA.

THE JENNINGS STRAIN of Large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are fine Winter bloomers and for spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 60 cents per 100. Any size to flowering plants, \$5.00 per 100; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't write and ask if I can fill an order as it is only a waste of time.

Seed of this strain \$1.00 per trade packet of 2,000 seeds; \$6.00 per cove.

4,000 CARNATIONS LEFT,

of Huzar's White, Tidal Wave, Mayflower, Wilder, Snow Bird, etc. Very low to close out. Write for prices.

E. B. JENNINGS,

CARNATION, VIOLET AND PANSY GROWER, Lock Box 254, SOUTHPORT, CONN.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, Magnolia glauca, Kalmia latifolia, Xerophyllum, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs.

Wholesale Trade List FREE. Send samples of what you want.

ROGERS NURSERIES, Moorestown, N. J.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConneville, O.

BEST GERMAN PANSIES.

From seed bench; strong plants in 50 sorts, 75 cents per 100; \$5.00 per 1000.

JOHN P. TONNER,

MONT CLARE, ILL. Orders received in English, German and Danish.

A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gate** at \$8.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Cartledge	Nancy Banks
Earl	Dorcas
Golden Triumph	Mrs. Hitt
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

CARNATIONS

Strong, healthy, field grown plants.

Mrs. Fisher,	Orient,
J. J. Harrison,	Lizzie McGowan,
May Queen,	Hector,
The Century,	W. F. Dreer,
Fred. Creighton,	American Flag,
Portia,	

PURITAN—The best white. Early, productive and healthy. 1st size, \$15 per 100; \$125 per 1000. 2nd size, \$10.00 per 100; \$80.00 per 1000.

Hybrid Perpetual Roses.

Strong, field grown plants, \$10.00 per 100.

WOOD BROTHERS,
Fishkill, N. Y.

10,000 CARNATIONS.

Garfield, Hens's.....	Per 100,
ROSES—Albany, La France, Mermel and Sa-	\$6.00, \$7.00 and \$ 8.00
franco, from 3-inch pots.....	6.00
Albany, La France and Woodman, from 2-in pots.....	5.00
Bride, Mermel, Saffrano and Bon Silence, 2-inch	
pots.....	2.50
Asparagus Tenuesissimus, 3½-inch pots.....	5.00
Dracena Indivisa 3-in. pots.....	\$1.00 per doz.
Fern Pteris Serrulata, 3-in. pots.....	\$1.00 a doz.
" " " " 2-inch pots.....	40c a doz.
Greenville Robusta, 15 to 18 in. high.....	\$2.00 a doz.
Pandanus Utilis, 4-inch pots, strong.....	\$5.00 per doz.

NATHAN SMITH & SON,
Adrian, Mich.

CARNATIONS,
FIELD GROWN.

GOLDEN & TRIUMPH,
and other varieties. Send for list with prices.

A few hundred second size plants of **Golden Triumph** at a reasonable price.

E. T. LOMBARD, Wayland, Mass.

E. G. HILL & CO.,

Wholesale Florists,
RICHMOND, INDIANA
TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y

Mention the American Florist when writing to advertisers on this page.

ROOTED CUTTINGS.

CARNATIONS.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention.

GERANIUMS.

Transplanted cuttings of a very choice assortment, every variety a good one. Price per 100 with labels, \$2.50, without, \$2.00.

SNOW CREST DAISY.

Transplanted plants of this beautiful and popular sort, \$6.00 per 100.

CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Forcing Roses.

NOW READY FOR PLANTING.

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

10,000 JACK ROSES

1 and 2 years old, on their own roots, well branched.

PER 100

2 to 2½ feet high.....\$10 00

2½ to 3½ feet high.....15 00

3½ to 4½ feet, extra large for plant-

ing out.....20 00

Will send sample of 40 on receipt of \$1.00.

We have about 5,000 assorted PALMS, in 5 to 7-inch pots. Prices on application.

Jordan Floral Co.,

706 Olive Street, ST. LOUIS, MO.

KAISERIN AUGUSTA VICTORIA

THE COMING WHITE ROSE.

From 4-inch pots.....\$ 5.00 per doz.

" 3-inch pots.....35.00 per 100

" 2½-in. pots.....25.00 per 100

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS.....\$30.00 per 1000

HYBRIDS.....40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

BENCHES FILLED.

NO MORE ROOM.

100 WILDERS, { \$8.00 per hundred.

100 PORTIA, { Cash with order.

Extra large plants, not culled, just as they stood in the row. Packed light, and satisfaction guaranteed.

W. A. LEE, Burlington, Vt.

25,000 Pansy Plants

The finest strain in the country. I can't get them, \$5.00 per 1,000; 75c per 100. is your time to order. Address,

GEO. B. WHITEHEAD,

Lock Box 116, GREEN'S FARMS, CONN.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

Per 100

EMILY PIERSON, new scarlet.....\$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00

MRS. FISHER.....7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,

in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

THE

NEW ROSE

BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, giving the best results to the florist, blooming freely and offering plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston) MASS.

ROSE

ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,

Wyndmoor, Chestnut Hill, Phila., Pa.

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

San Francisco, Nov. 1-4—California State Floral
Society. Emory E. Smith, Sec'y, Palo Alto, Cal.
New York, Nov. 1-7—New York Florists' Club.
Wm. Plumb, manager of exhibition, Madison
Square Garden.Philadelphia, Nov. 7-11—Pennsylvania Hort. So-
ciety. D. D. L. Farrow, Sec'y, Horticultural
Hall, Broad St.Toronto, Ont., Nov. 8-10—Toronto Gardeners' and
Florists' Association. A. H. Ewing, Sec'y, 276
Victoria St.St. Louis, Mo., Nov. 8-10—St. Louis Florists' Club.
Emile Schray, Sec'y, 4101 Pennsylvania Ave.Boston, Nov. 8-11—Mass. Hort. Society. Robert
Manning, Sec'y.Chicago, Nov. 8-11—Hort. Society of Chicago. W. C.
Eggo, Sec'y, 623 Dearborn Ave.Milwaukee, Wis., Nov. 8-11—Wisconsin Florists'
and Gardener's Club. A. W. Bennett, Sec'y, 108
Wisconsin St.Minneapolis, Minn., Nov. 8-11—Minneapolis
Florists' Club. F. Nagel, Sec'y, 1118 W. Lake St.Cincinnati, Nov. 8-12—Cincinnati Florists' Society.
E. G. Gillett, Sec'y, 136 Walnut St.Galt, Ont., Nov. 9-10—Galt Hort. Society. Edward
Lane, Sec'y.Worcester, Mass., Nov. 9-10—Worcester Hort.
Society. E. W. Lincoln, Sec'y.Montreal, Nov. 9-11—Montreal Gardeners' and
Florists' Club. H. Stocking, Sec'y, 239 St.
Denis St.Hartford, Conn., Nov. 9-11—Hartford County
Hort. Society. Julian S. Allen, Sec'y.London, Ont., Nov. 9-11—London Gardeners' and
Florists' Society. Wm. Gammage, Sec'y.Providence, R. I., Nov. 9-11—R. I. Hort. Society.
C. W. Smith, Sec'y, 55 Westminster St.Buffalo, Nov. 10-12—Buffalo Florists' Club. Edw.
L. Maysel, Sec'y, 479 Main St.Washington, Nov. 15-17—Washington Florists'
Club. G. W. Oliver, Sec'y, 1841 8th St. N. W.Oshkosh, Wis., Nov. 15-17—Oshkosh Florists'
Club. Mrs. C. M. Steele, Sec'y.Springfield, Mass., Nov. 15-17—Hamden County
Hort. Society. W. F. Gale, Sec'y, 367 Main St.Baltimore, Nov. 15-18—Gardeners' Club of Balti-
more. J. J. Perry, Sec'y, 221 N. Liberty St.Pittsfield, Mass., Nov. 15-18—Berkshire County
Gardeners' and Florists' Club. A. P. Meredith,
Sec'y, Pittsfield.Indianapolis, Nov. 15-19—Society of Indiana Flor-
ists. Wm. G. Jerrett, Sec'y, 37 Massachusetts
Ave., Indianapolis.Pittsburg, Pa., Nov. 15-19—Pittsburg and Alle-
gheny Florists' and Gardeners' Club. G. Oester-
le, Sec'y, 420 Forbes St., Pittsburg.Bay City, Mich., Nov. 15-19—Bay County Hort.
Society. T. J. Cooper, Sec'y.Erie, Pa., Nov. —Erie Chrysanthemum and
N. W. Penna. Hort. Society. H. Tong, Sec'y.Newport, R. I., Nov. —Newport Hort. Society.
J. J. Butler, Sec'y.Do YOU WANT an alphabetical list of the
roses in commerce in America, with the
class, habit, date of introduction, name
of introducer, and a brief accurate de-
scription of each one, and with synonyms
all noted? You will find such a list in our
new trade directory and reference book.THE Florists' International Telegraph
Delivery Association, of which we have
received the secretary's report, continues
in a prosperous condition, its list of
members being increased, while the work
done has proved satisfactory all round.BARNIER BROS. & SON succeed Tronson
Freres, the well-known nurserymen at
Orleans, France.**DECORATIVE PLANTS.****BEFORE** placing your order for Fall Delivery,
Come and see our immense stock of

LATANIA BORBONICA,

KENTIA BELMOREANA,

RHAPIS FLABELLIFORMIS,

ADIANTUM FARLEYENSE,

PANDANUS VEITCHII,

COCOS WEDDELIANA,

ARECAS IN VARIETY,

KENTIA FORSTERIANA,

PANAX VICTORIE,

RHAPIS HUMILIS,

FICUS ELASTICA,

ARALCARIAS.

And hundreds of other valuable plants in the best possible condition, which
will speak for themselves.**PITCHER & MANDA,**

UNITED STATES NURSERIES.

SHORT HILLS, N. J.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.

12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.**Headquarters for Water Lilies.**All the newest and best in cultivation, including all the latest French hardy hybrid
Nymphaeas. Seeds, tubers and plants.

Catalogue and price list on application.

WM. FRICKER, DONGAN HILLS, N. Y.**J. L. DILLON,
Wholesale Florist**

BLOOMSBURG, PA.

WRITE FOR CIRCULARS.

HARDY CUT FERNS**MOSS** (SPHAGNUM AND
GREEN SHEET.

A L I V E L E A V E S.

BOUQUET GREEN AND RESTORING of
all kinds in any amount on hand.**HARTFORD & NICHOLS,**

18 Chapman Place, BOSTON, MASS.

**WHITE DOVES**

FOR FLORISTS.

Largest and finest stock in the United
States. Write for prices to**S. J. RUSSELL,**

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayerdsorfer & Co., Phila., Pa.

SEED.

50 lbs. Fresh Paulownia Imperialis Seed.

See what Peter Henderson says of this val-
uable tree in Handbook of Plants. Young
trees produce fine tropical effects. We
have cut leaves over two feet across.**ROGERS NURSERIES, Mooresdown, N. J.****Double Petunias.**Twenty extra choice named sorts. Twelve of
these were illustrated in the AMERICAN FLORIST
No. 226. These are the result of 12 years' careful
breeding. Price, \$10.00 per 100.I also offer a limited quantity of Seed of this
Double Strain at 50 cents per 1000 seeds.**G. A. McTAVISH,**

VICTORIA, B. C., CANADA.

FLORAL DESIGNSThe Cut Flower Worker's friend. Fine book
of 160 pages. Send \$3.50 for it, to**J. HORACE McFARLAND, Harrisburg, Pa.****DAN'L B. LONG,
COMMISSION • FLORIST,**

495 Washington St., BUFFALO, N. Y.

**FORING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.**

Lists, Terms, &c. on application

**Wisconsin Flower Exchange,
WHOLESALE
Cut Flowers and Florists' Supplies**

131 Mason St., MILWAUKEE, WIS.

**CHOICE STOCK, CAREFULLY PACKED,
AND ON TIME. Send for Price List.****Cut Chrysanthemums.**

FINE BLOOMS, ON SINGLE STEMS.

Price, \$4 to \$6 per 100. Carefully packed
for long distances.Address **J. G. Burrow,**

FISHKILL, N. Y.

Cut Chrysanthemums.**SPECIMEN BLOOMS
AT \$2 AND \$3 PER DOZ.****J. C. VAUGHAN, 808
688 CHICAGO.****CUT ROSES.**SUCH AS
PERLES, NIEUWETS, BEAUTES,
LA FRANCE, MERMETS, METEOR,
WHITE LA FRANCE.

can be supplied to florists at Wholesale Prices.

ADDRESS **NANZ & NEUNER,
LOUISVILLE, KY.****CUT SMILAX.**From Nov. 1st to May 1st our price for Smilax will
be 20 cents per string. Quality first-class. Prompt
attention to orders by wire.**J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.**

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
CHICAGO, ILL.
Telephone 4786.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

WHOLESALE
FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S 16th Street, Philadelphia, Pa.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
77 S. 7th Street, MINNEAPOLIS, MINN.

Wholesale Markets.

Cut Flowers.

	NEW YORK, NOV. 1.
Roses, Perles, Gontiers, Niphotos.	1.00 2.00
" Mornets, Brides, Hoste.	2.00 3.00
" Watville, Cash.	2.00 3.00
" La France, Albany.	3.00 4.00
" Beauty.	5.00 25.00
Carnations.	1.00 1.25
Valley.	4.00 6.00
Romans.	4.00
Narcissus.	4.00
Violets.	.75 1.25
Chrysanthemums.	5.00 25.00
Adiantum.	1.00
Smilax.	12.00 15.00
Asparagus.	50.00
	BOSTON, Nov. 1.
Roses, Niphotos, Gontier.	3.00 5.00
" Bride, Mornet, Wootton.	3.00 4.00
" La France, Meteor.	1.00 6.00
" Perle, Sunset.	3.00 4.00
" Beauty.	15.00 25.00
Carnations.	1.50
Asters.	.75 1.00
Valley.	4.00
Romans.	4.00
Narcissus.	4.00
Tuberose.	.50 1.25
Cosmos.	.75
Chrysanthemums.	4.00 25.00
Alzomette.	1.00
Asparagus.	50.00
Smilax.	12.00
Adiantum.	1.00
	PHILADELPHIA, Nov. 1.
Roses, Beauties.	15.00 20.00
" Albany, Mornet, Bride.	3.00 4.00
" Wootton.	4.00
" Pierre Guillot.	4.00
" Meteor.	4.00 5.00
" Perle, Niphotos, Gontier.	2.00 3.00
Valley.	6.00
Carnations.	1.00 1.25
Violets.	.50 1.00
Chrysanthemums.	4.00 20.00
Bouvardia.	1.00
Adiantum.	1.00
Smilax.	15.00 20.00
Asparagus.	50.00 75.00
	CHICAGO, Nov. 1.
Roses, Perles, Niphotos, Gontier.	3.00 4.00
" Mornet, La France, Bride, Albany.	4.00 5.00
" Beauty.	10.00 15.00
Carnations, short.	1.00 1.50
" long.	1.25 1.50
" baby.	2.00 2.50
Chrysanthemums.	5.00 25.00
Violets.	.75 1.00
Adiantum.	1.00 1.50
Smilax.	15.00 20.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
— WHOLESALE. —
67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
— WHOLESALE —
FLORIST,
1122 FINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
Cut Flowers
51 W. 30th St., NEW YORK.
FRANK D. HUNTER, JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHR,
— WHOLESALE —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street.
MICHAEL A HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations.
Branch, at Cut Flower Exchange, 408 E. 34th St.

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST. ST. LOUIS, MO.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

INDICATIONS now point to a short supply of bouquet green.

VISITED CHICAGO: Henry A. Salzer, Wm. Meggatt and S. Y. Haines.

RUMOR has it that several eastern catalogue men have combined on a uniform retail price for onion seed.

THE AGRICULTURAL EPITOMIST at Indianapolis, Indiana, has been sold to E. Chubb Fuller, formerly with the *Practical Farmer*.

D. M. FERRY & Co. are reported to be making arrangements to grow many of their peas in future in the neighborhood of Charlevoix, Mich.

PASADENA, CAL., OCT. 26.—It is understood that the Santa Fe will in a few days run a special train loaded with pampas plumes to Chicago. This, as special train service, will be more notable in its way than even the big train load of walnuts which was dispatched over this road last week.

THE QUESTION of retail prices on onion seed is becoming an important one among the catalogue men now. A western seedman who is well posted on the present season's stocks is our authority for saying that in his judgment the retail rates should be about as follows: Yellow Globe Danver's \$2.50, Flat Danver's \$2.25, Red Wethersfield \$2.25, Extra Early Red \$2.50, Southport Red \$2.25, Southport Yellow \$2.50, White Globe \$3.25, White Portugal \$3.50. These prices seem high but may not be far out of the way, but one thing is certain, that apparently the catalogue men do not need to give away onion seed as they have done for the last two or three seasons.

SEEDS!
PLANTS! BULBS!
Everything pertaining to the Farm and Garden of the best and choicest quality. **PRICES RIGHT.**
Catalogue on application.
WEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.

NEW HAVEN CONN.
Mention American Florist.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

Trees, Plants, Seeds, Bulbs.
WHOLESALE FLORISTS.

LILY OF THE VALLEY PIPS.

Selected three year old crowns of the true large-flowered variety, from consignment due in November, ex-steamer wharf at New York. Per case of 2,400, \$19.00.

MARIE LOUISE VIOLETS, strong runners, free from disease, \$30.00 per 1000. Smilax Seed, per ounce, 30 cents; per pound, \$5.00.

427 & 429 Sansome Street, SAN FRANCISCO, CAL.

NURSERIES: MENLO PARK, CALIFORNIA.

FLORISTS' STOCK IN SEASON

Hyacinths—Named.....	Per 100 Per 1000	\$5.00
" Mixed, single, separate colors.....		25.00
" Roman, yellow.....		35.00
" Roman, white, 11 to 12cms.....		12.50
Narcissus—Stella.....		8.50
" Cynosure.....		20.00
" Von Sion, English grown.....		15.00
" Von Sion, Dutch grown.....		15.00
" Double Roman.....		17.50
" Chinese.....		6.50
Lilium—Auratum, 7 to 9 inch.....		7.50
" Auratum, 8 to 10 inch.....		9.50
" Auratum 50c more per 100 in N.Y.....		7.50
" Rubrum, 6 to 8 inch.....		7.50
" Rubrum, 8 to 9 inch.....		10.50
" Album.....		22.00

Tulips, single, as follows: Cottage Maid, Chrysolora, Canary Bird, Golden Kroom, Jack Von Delt, Pottelacker, white and scarlet, Queen Victoria, Reinhardt, Rose Mundi, Van Van del, Veltow Prince.

Tulips, double, as follows: Gloria Solis, La Cordon, La Citadelle, Penny Gold, Purpurkroon, Rex Rubrum, Titian, Duke of York. All at bottom prices.

BOUQUET GARDEN—Per 100 in Chicago, \$5.00; in New York, \$8. Write for prices on larger lots.

HOLLY—Vaughan's "Get There" Holly, full cases, all stock, known to be the best and most reliable, per case, \$7.00; 3 cases, \$16.00; 4 cases, \$20. There is big money in this stock. Order now and be sure of it.

AZALEAS READY, at \$35, \$15, and Show Plants at \$1 and upwards.

NEW YORK. J. C. VAUGHAN, CHICAGO.

Special Offer.

ROMAN HYACINTHS	Per 100
White.....	\$1.40
Blue.....	1.60
Pink.....	1.90
DUTCH HYACINTHS	
Single mixed, extra fine.....	2.40
Double.....	2.50
TULIPS	
Single mixed, finest quality.....	.90
Double.....	.90
CROCUS	Per 1,000
All colors, mixed, extra fine.....	1.85
FRESH MUSHROOM SPAWN	

Have you had our Bulb List?

H. C. FAUST & CO.,
64 & 66 N. Front St., PHILADELPHIA, PA.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

Roman Hyacinths.

We have a few thousand White Romans, 12 to 15 cms. to close out.

Let us hear from you if you can use any.

Wisconsin Flower Exchange,
131 Mason Street, MILWAUKEE, WIS.
Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

MICHEL'S
Plants, Bulbs, Etc.
Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow. It must be fresh, well spawned, and in good condition. Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, "Mushrooms for the Million," mailed free. Falconer's "Mushrooms and How to Grow Them." Published at \$1.50. (Gardiner's price \$1.35 post free.) Robinson's "Mushroom Culture," 50 cts. post paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$3.00 per 100 lbs. Special rates to large growers. Address all correspondence to 21 North Thirteenth Street, Philadelphia, Pa.

JOHN GARDINER & CO.**Magnolias.**

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.**"CHRY-S-COLA"**

When you attend the . . .

EXHIBITIONS

This fall, please note the varieties of

CHRY-SANTHEMUMS

That take the prizes; compare with my list, and you will find that I have the best of them.

COLEUS are now ready to ship.**GERANIUMS** are almost ready.

Send for CHRY-S-COLA price list.

S. B. FIELD, Roselle, N. J.**Cyclamen Persicum Giganteum**

Three-inch pots, showing bud, per 100, \$ 8.00

Five-inch " " " " " 12.00

CARNATIONS. Field Grown. ALEGATIERE, PORTIA, HARRISON, CENTURY, etc., \$6.00 per 100. LOUISE FORTSCH, line, yellow, \$7.00 per 100.Address **J. G. BURROW,**
FISHKILL, N. Y.**HYDRANGEA PANICULATA GRANDIFLORA**

The most profitable and satisfactory plant for florists to buy and sell.

THE VERY BEST ORNAMENTAL SHRUB.

It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest Stock in America.**SPLENDID PLANTS. CHEAPER AND BETTER THAN IMPORTED.****SEE PRICES BELOW:**

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100;	\$40.00 per 1000
TWO YEARS, 2x3 1/2 feet, fine.....	6.00 "	50.00 "
TWO YEARS, once selected, 3x3 1/2 feet, strong.....	7.00 "	60.00 "
THREE YEARS, twice transplanted, 3 feet, strong, nicely branched..	8.00 "	70.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance. Address

THE DINGEE & CONARD CO., West Grove, Pa.Now is the time to get your Stock
for Winter Trade.**ORCHIDS,**

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.
LILIUH MARISSII and BULBS for
Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,**Rose Hill Nurseries, New Rochelle, N. Y.**
Mention American Florist.**ORCHIDS.**

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Mention American Florist

SURPLUS STOCK.5 000 English lilies, from 3-in. pots, 24 inches high,
\$4.00 per 100.5 000 English lilies, from 4-in. pots, 24 inches high,
\$5.00 per 100.500 Guerdia Davidsonii and Alfred Neuner, from
5 inch pots, \$8.00 per 100.500 Begonia Rex and Silver Queen, nice salable
plants, from 4 inch pots, \$5.00 per 100.

1 000 Aconus variegata strong 3-in. pots, \$8.00 per 100.

500 Strong, healthy Carnation Peerless, \$10.00 per 100.

A number of specimen plants of Pandanus utilis,
Dion edule, Selaginella elegans, Arecas, etc.Prices and sizes given on application.
JOHN RECK, BRIDGEPORT, CONN.

Mention American Florist.

P. SEBIRE & SONS,**Nurserymen, USSY, Calvados, France.**A general assortment of Fruit Tree Stocks such
as Apple, Pear, Myrobalan Plum, Mahaleb and Mar-
zard Cherry, Angers Quince, Small Evergreens, For-
est Trees, Ornamental Shrubs, Roses, etc. The
largest stock in the country. Prices very low.Packing secured. Catalogue free. Send for
quotations before placing your orders elsewhere.
Agents for U. S. America and Canada.**C. C. ABEL & CO., P. O. Box 920, New York.****THE SMILAX KING!**Who?
Where?**KOFFMAN,**
WALDEN,
Orange Co., N. Y.

What?

SMILAX25c. a string; 20c. a string by the hun-
dred; 18c. a string by the thousand.

When?

ALL THE YEAR AROUND.

And he pays the Express.

**ENGLISH
MUSHROOM
SPAWN.**Large importation
of fresh stock just
received.1 lb 15c.; 10 lbs. \$1.25;
100 lbs. \$8.00.**W. W. BARNARD & CO.,**
6 & 8 N. CLARK STREET,
CHICAGO.**TRY DREER'S
GARDEN SEEDS**Plants, Bulbs, and
Rootstocks, they are the
best at the lowest prices.
TRADE LIST issued quar-
terly, mailed free to the
trade only.**HENRY A. DREER,**
Philadelphia**NEW AND RARE PLANTS,
ORCHIDS, ETC.**A large collection of Hothouse and Greenhouse
Plants carefully grown at low rates.**ORCHIDS.** A very extensive stock. East Indian,
Mexican, Central South American, etc.Hardy Ferns, Mosses, Clematis, Peonies,
Phloxes, Japanese Iris, etc.New and Standard fruits; rare and beautiful Trees,
Spirals, Evergreens, etc. Catalogues on application.**JOHN SAUL, WASHINGTON, D. C.****VERY CHEAP PLANTS AND BULBS**Fancy Leaved Catadumms, open ground bulbs,
from 1/2 ounce to 10 ounces, well ripened, lots of colors,
from \$1.00 to \$3.00 per 100. Cape Jasmine, Enyo-

mus, fine 2 1/2-inch pot plants, \$4. per 100, \$35. per 1000.

Rooted Cuttings, large, fine and healthy, at \$1.00
per 100, \$9.00 per 1000.I will sell the above for cash or exchange the same
as well as very large Palms and other large foliage
plants, for an entire pumping outfit.**F. J. ULBRICHT, Florist,**
P. O. Box 655, ANNISTON, ALA.

YOUNG BROS.,

The Largest Wholesale

CUT FLOWER HOUSE

IN THE WORLD.

We invite attention to the following list of well-known growers, whose reputation is a sufficient guarantee to the quality of the stock handled by us:

Asmus, Ernst	Fowler, D., Jr.	May, J. N.	Rahmstick, J. L.
Butler, Chris	Gardner, J. G.	Markle, J.	Rassbach, J. & Sons
Binstead, G. W.	Gamewell, J. McD.	Mahon Bros.	Saltford, W. G.
Bruen, G. W.	Germont & Cosgrove	McKnight, H. B.	Saltford, Geo
Bradbury, Jos.	Henderson, Peter & Co.	McDonald, R.	Slaughter, T. J.
Barker, Jos.	Henderson, J. H.	McMahon, Frank	Sloan, Jas
Barry, M. J.	Herr, A. M.	McCarthy, D. F.	Swayne, Ed
Barnes, John	Hostetter, E. P.	Maximer, H. A.	Swayne, Wm.
Christy, C. R.	Harcourt's Son, J. D.	Manion, Thos.	Soltan, B.
Connelly, P.	Horn, Henry,	McPherson, A.	Taplin, Jas. S.
Chitty, H. E.	Jennings & Waterbury	Pesenecker, C.	Tucker, A. C.
De Pew, Tunis	Jones, A. T.	Piercy, Francis,	Thorpe, John
Denee, C. J.	Kinzey, Frank	Pierson, F. R. Co.	Tait, C. S.
Dorrance, B. F.	Keefe, Thos. H.	Pitcher & Manda	Weigand Bros
Denman, G. N.	Keyser & Co.	Reid, John	Wight, W. P.
Davison, W. R.	Kratz, Louis	Ryan, Jas.	Young, W. H.
Darsley, Geo.	Littlejohn, Jas.	Rokeby Farms	Lovett, J. T. Co.

AND MANY OTHERS.

We offer now

PRIZE CARYSANTHUMS In all the Leading Varieties, Including Novelties.
Grown Especially for Exhibition Purposes.

Orchids all the Year Round.

YOUNG BROS.,

20 WEST 24TH ST.

NEW YORK.

YOUNG BROS.

Plant Department.

By a special arrangement with several of the largest growers,
we are now prepared to offer

PALMS AND DECORATIVE PLANTS,

in all the select and desirable varieties suitable for artistic decorations. The use of choice
and ornamental plants for

HOUSE DECORATION

has become so general that we feel confident that buyers will appreciate the advantages of a
place easy of access and centrally located, where they can be obtained.

The collections which we represent are

Unequaled in Extent and Variety, and
Rich in Novelties.

The Plants Have Been Grown Cool and Stocky.

Packing for Transportation by Express will receive Special Attention,
and those placing orders with us can depend upon having them filled
promptly and satisfactorily.

YOUNG BROS.,

WHOLESALE FLORISTS,

20 West 24th Street.

NEW YORK.

Denver, Colo.

The chrysanthemum season has opened up and fine blooms of the earlier varieties are coming in. The Fruit and Florist Co. are cutting a large number of fine flowers, as are also the South Denver Floral Co. and Mrs. Mauff. The Montclair Greenhouses planted mostly late varieties this year, but will undoubtedly have stunners when they do come.

The various Methodist churches of the city will hold a "mum" show about November 23, but nothing extra will probably be shown, as the trade as a rule is not taking any interest in the exhibition.

The fall trade is opening briskly with a good demand for first class stuff. Good roses and carnations are scarce but coming in better every day.

J. L. Russell will open his new store in the Brown Palace Hotel about November 20 with a chrysanthemum show.

An important event of the season is the purchase of the entire greenhouse stock and fixtures of J. L. Russell, corner Lincoln and Alameda avenues, by the South Denver Floral Co., composed of Mr. J. O. Charles, capitalist and owner of the Charles Building, and Mr. H. H. Given. This company erected a most complete plant of nine large houses on the corner of Alabama and Washington streets, at an expense of \$10,000, last spring, and every one was very much surprised when they increased their business still further by buying the Russell greenhouses. The combined houses, 31 in number, have a glass surface of nearly 40,000 square feet, which makes a large plant. Mr. Russell still retains his 16th street store and will devote the most of his time to the management of his mining property. The South Denver Floral Co. will not enter into competition with the retail trade, but will confine themselves to their rapidly growing trade in palms and plants and wholesale cut flowers. Mr. H. H. Given will manage the entire business, with Mr. Ed. Johnson and Louis Larson as foremen of the two plants.

Denver has more money invested in the greenhouse business than any city of its size in the U. S. There are 14 firms and companies now engaged in raising cut flowers in the city of Denver, "and yet good stock is always worth good money."

John E. Lect, owner of Leetsdale addition to Denver, sold 10 acres to an eastern party last week for the purpose of winter gardening on a large scale; 10 large glass houses for forcing vegetables are to be erected at once. G.



Here is Something you May Need

All priced as low as is consistent for First-Class Stock, and in excellent order.

	Per Doz.	Per 100
CARYOTA URENS, 1 to 2 leaves, pot grown.	\$ 75	\$ 5 00
CHAMEROPS ENCLISA, 5 to 8 leaves, from 2 inch pots.	75	4 00
LIVISTONA REVOLUTIS, 2 to 3 leaves, pot grown.	1 00	6 00
OEDONDOX REGIA, 3 feet high, pot grown, show character leaf, 25 cents each.		
PHOENIX RECLINATA, 4 to 7 leaves, 2 inch pots.	1 00	6 00
SABAL LONGIPEDUNCULATA, strong, from 3 inch pots.	2 50	20 00
RED SPANISH PINEAPPLE, rooted plants.	\$25.00 per 1000	3 00
SUGAR LEAF PINEAPPLE, rooted plants.	\$9.00 "	10 00
MANGO, fine, young, pot grown.	2 00	15 00
YELLOW CATTLEY, or CHINESE GUAVA, 3 to 4 feet, pot grown.	2 00	15 00
LOQUAT, fine mailing stock, pot grown.	75	4 00
2 to 3 feet, from open ground.	1 50	10 00
AGAVE SISALANA, Sisal Hemp.	\$25.00 per 1000	3 00
BAMBUS NANA, strong.	2 00	15 00
CRINUM FIMBRIATUM, pink and white.	1 00	7 00
CINNAMON OF COMMERCE, strong mailing, pot grown.	2 00	15 00
CAMPOR, strong, pot grown.	1 75	12 00
EULALIA JAP. VARIEGATA AND ZEBINA, strong clumps.	75	5 00
GARDENIA FLORIDA, mailing, pot grown.	75	5 00
HEDYCHUM CORONARIUM, strong tubers.	1 00	6 00
CRAPPE MYRTLES, purple, pink and crimson, 12 to 20 inches, clean and fine, in any quantity.	\$15.00 per 1000	75 5 00
PANCRATIUM CARIB., very fine cultivated bulbs.	\$25.00 per 1000	3 00
ROSES—Queen of Prairie, very heavy, 3 to 5 feet.	85	6 00
Agrappins, 18 to 30 inches.	1 00	7 00
Woodland Margaret, strong, 3 to 5 feet.	1 00	7 00
Manetti, strong, 3 to 5 feet.	\$30.00 per 1000	5 00
THEVETIA NERIFOLIA, strong, pot grown.	1 50	10 00
TILLANDSIA UTRICULATA, Air Plant, mailing plants.	2 50	
PALMETTO LAYERS, for decorating.	75	5 00
Whole Crowns, perfect, 3 to 5 feet, elegant.	3 00 \$20-25 00	

Everything well packed free. Send for Catalogue.

REASONER BROS., Oneco, Florida.

Mention American Florist.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across, \$15.00 to \$20.00 each.

" " fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

" " to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. **PACKING FREE.**

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5 inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO., Bay City, Mich.

ROSTER & CO., BOSKOOP, HOLLAND

CLEMATIS "Duchess of Edinburgh," Per 100.
the best white double flowering
Clematis, extra strong plants, 6 to
8 ft., 4 to 7 branches, \$22 50

HYDRANGEA paniculata grandiflora, 2½
to 3 feet, 8 00

TREE HYDRANGEA paniculata grandiflora, 25 00

ROSA RUGOSA, white and red mixed,
extra fine plants, 3 to 5 branches, 6 00

1½ to 2 feet, 30 00

WISTARIA SINENSIS, strong, 40 00

WISTARIA SINENSIS ALBA, strong, 40 00

Trade list free on application.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Association "Flora"

BOSKOOP, HOLLAND.

Now on hand in New York:

CLEMATIS, 3 Years, per 100, \$20.00

H. P. ROSES, for forcing, 9.00

In the best variety, as Altred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Planter, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blancches, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Ferns, Dracenas, Araucarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 260 Cambridge Ave.,

JERSEY CITY, N. J.

CLEMATIS.

	Doz.	Hundred
2 Year Choice Assortment	\$3.00	\$25.00
H. P. Roses, Choice named kinds	2.00	15.00
Monthly	1.25	10.00
Daisy Snowflake, strong plants	.40	3.00
Dahlia, field grown, choice named	1.25	8.00

F. A. BALLER,
BLOOMINGTON, ILL.

• YOU WILL ALL WANT THE • SNOW GREST DAISY

Now in the time to put them in for Christmas blooming.

The most enterprising in the trade are talking hold of it. The 25,000 nearly all gone. Don't forget that we are headquarters and owners of the ORIGINAL PLANT and have the largest stock in the world and offer them now 12 for \$1.00. Sample plant with bloom for 12, 1c. or 6 c. stamps, post free; 100 for \$8.00; safe arrival guaranteed.

Try a package of Gibson's Scented Hybrid Pansy Seed and realize all that can be desired in the Pansy. 500 seeds 30c.; 1000 50c.; 3000 \$1.20; ½ oz. \$1.60; ¼ oz. \$1.00; ounce \$5.00.

New Crop Mammoth Verbena Seed in fine mixture, plenty of white; finest crimson and richest purples, with all the intermediate colors, in racks of 100, seeds 60c.; 500 for \$2.25, while they last.

Also the beautiful Sweet-Scented and novel Dakota Primrose Ice King, 100 seeds 25c.

Fresh Smilax Seed, per ounce 35c.

Yours very truly,

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

CHRYSANTHEMUMS ON THE BRAIN.



Do not contract the disease to such an extent as to overlook the needs of your regular trade.



Remember

It is but seven weeks until Christmas. Do not wait until the last minute before giving your orders. Our full stock of *Florists' Supplies* is now in, and the goods are Fresh and First Quality.

Protection.

We protect our trade by refusing to sell at retail under any circumstances.

Have you sent for our New Catalogue?

If not, you should do so at once; you will find it full of just the goods you need to please your customers and to make your stock attractive.

H. Bayersdorfer & Co.

HEADQUARTERS FOR

Florists' Supplies,

56 N. 4th St.,

PHILADELPHIA, PA.

H. M. HOOKER COMPANY, 57 and 59 W. Randolph Street, CHICAGO, NATURAL GAS MADE GLASS FOR GREENHOUSES.

Write for latest prices.



Fancy.



Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE. Hinsdale, Mass.

GOLDEN NAMES FOR EXHIBITORS.

If you desire your Chrysanthemums correctly, neatly and handsomely named at the coming shows, send for my set of 150 labels and names in gold and dark green. They will save you time, trouble and expense, add to your exhibit and aid you in obtaining prizes.

One set, post free, Two Dollars; three sets, Five Dollars. Circular free.

T. H. SPAULDING, Orange, N. J.

MARSCHUETZ & CO., FLORISTS' • SUPPLIES.

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.
Mention American Florist

SPHAGNUM MOSS.

Fine, clean stock: 1 Bale, \$1.50; 3 Bales, \$4.00;
10 Bales, \$11.50.

SALZER SEED CO., LA CROSSE

CARNATION CULTURE;

BY L. L. LAMBORN
Third Edition containing all available information on the subject NOW READY. Price, \$1.50 mail. Address H. E. CHITTY, Paterson, N.J.

OUR NEW TRADE DIRECTORY

— AND —

Reference Book

FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and Local Trade Organizations, with just the information about each that you want; convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

YOU CAN'T AFFORD TO BE
WITHOUT THIS BOOK.

Price, \$2.00, Postpaid.

AMERICAN FLORIST CO.,

322 Dearborn St., CHICAGO.

H. BAYERSDORFER & CO., WHOLESALE FLORISTS' SUPPLIES ONLY,

56 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARING, HART & CO., MANUFACTURERS OF

Window Glass

MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

Mention American Florist

Cane Stakes.

ANY QUANTITY UP TO
A CAR LOAD.

J. D. CARMODY CO.,
EVANSVILLE, IND.

Mention American Florist.

BLOOMINGTON (PHOENIX) NURSERY.
600 ACRES, 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

St. Louis.

A heavy frost October 24 killed all tender plants in the open ground. The average date for first frosts, as deducted from weather reports for many years, is October 26.

The chrysanthemum show opens November 8. Present indications promise a grand show.

The flower trade has been brisk the past week. All stock has been good and the supply below the demand. American Beauties and white and pink roses have been especially scarce.

Mr. C. A. Kuehn has been confined to his home for a couple of weeks. He is now convalescing and will probably be at his store next week.

There have been very few plant lice at the Botanical Garden this fall, their parasitic and predaceous enemies having been too many for them. The maple trees are completely covered with larvae and pupae of coccinellids. It might prove a good hit to gather a lot of these beneficial insects and remove them to the plant houses.

J. C. DUFFEY.

"Not Difficult to Raise."

The metropolitan papers are starting in for their annual campaign of nonsense. This time it is the New York *Shen*, and here is the way in which it romances:

It is curious that when so many women are asking what they can do to earn money so few think of becoming amateur gardeners. Violets, pinks, chrysanthemums and many other flowers are not difficult to raise, and when carefully packed and sent to a first-class florist bring good prices. It is said that a woman in the south makes a good income furnishing real orange blossoms to a famous florist, while five or six others dress themselves on the dollars produced from the violets that grow with so little care in the well-prepared violet pit.

Do YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.



Chinese Lily Bowls.

Bulbs planted in these Bowls increase your sales 100 fold.

- No. 1. **BLUE OWAL.** Extra fine porcelain. BLUE and WHITE. Set of 3 bowls, 7, 8½ & 10 in. \$1.50. No. 2, set of 3 bowls, 5, 6 and 7 inches, 75c.
No. 3. **JAPAN OWAL.** Beautifully decorated in many colors. Set of 3 bowls, 7, 8½ & 10 inches, \$1.00. No. 4, set of 3 bowls, 5, 6 and 7 inches, 50c. 5 per cent off on 12 sets; 10 per cent off on 25 sets. No. 5, single bowl, extra deep, 6 inches, \$1.50 per dozen.

A. BLANC & CO., Philadelphia, Pa.
Headquarters for Cacti and Electrolyses.

August Rolker & Sons



COLUMBIAN JARDINIERE. Bronze, finished, 10 in. diameter, \$2.00; 17 in. diameter, \$2.50 net.

136 & 138 West 24th St., NEW YORK.

HEADQUARTERS for CHRISTMAS TREES!

Wisconsin Blue Spruce.



The finest of all in form and color. Well furnished, selected trees, carefully packed in light, strong crates and bales, containing 25, 50 and 100 Trees, delivered, **Freight Charges Paid**, to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
3 to 4 feet	\$ 2.00	\$ 4.00	\$ 7.00
4 to 6 feet	4.00	6.00	10.00
6 to 8 feet	6.00	11.00	20.00
8 to 10 feet	10.00	16.00	30.00
10 to 12 feet	15.00	25.00	45.00
12 to 14 feet	20.00	35.00	60.00
14 to 16 feet	25.00	45.00	80.00

The two largest sizes are of Balsam Fir; fine selected specimens.

Special correspondence solicited on car lots.

As the Western Classification of roads now exact, by a recent ruling, **ACTUAL PREPAYMENT** of all freight charges on Christmas Trees, I am obliged to assume these charges, hence I am under the necessity of insisting on the following:

TERMS OF PAYMENT: At least one-half cash with order; balance 30 Days approved credit. All bills to be paid not later than January 1st, 1893. No attention will be paid to orders not complying with above terms. Orders should be in before December 1st.

W. D. BOYNTON, Shiocton, Wis.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39, Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

Mention American Florist.

GARDENING

Edited by William Falconer, tells amateurs in gardening what they want to know in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by THE GARDENING CO., Monon Building, Chicago.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,

SAN FRANCISCO, CAL.

THE EVANS CHALLENGE VENTILATING APPARATUS.

WITHOUT A RIVAL, EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1008 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE

FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb of roof.
- 5th. Give the thickness and width of rafters or sash bar.

Florists, Nurserymen & Seedsmen

GEM STEEL WIND ENGINE
GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no hinged or frail-jointed towers and practically no attention, yet is more durable than other Wind Motors that require oil and more unique in design. The GEM TOWER combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the Hallday Standard Pumping and Genrod Wind Mills, the Standard Vaneless and U. S. Solid Wood Wind Mills, Pumps, Tanks, Horse Hay Tools, &c. No other company offers equal inducements. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.
BATAVIA, ILL., U. S. A.



OUR . . .
HALF-TONE
ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

STOTT'S SYRINGE.



Read advertisement in next week's issue.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

You will benefit the American Florist
by mentioning it every time you write
an advertiser in these columns.



With an order for 500 letters, we furnish a box made of wood,
nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2,000 per 100. Patent

fasteners with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St.
Treas. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider
a decided success. Any customers having old style
fasteners which they wish to exchange, can do so
without additional cost by writing us.

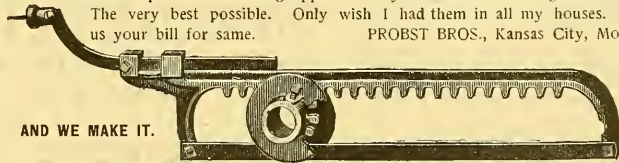
These Letters are handled by all the Wholesalers in Boston.

J. D. CARMODY, ESQ., Evansville, Ind.

New Departure Ventilating Apparatus duly to hand and working like a charm.

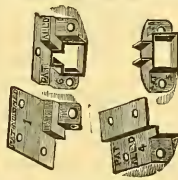
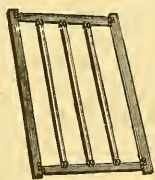
The very best possible. Only wish I had them in all my houses. Send
us your bill for same.

PROBST BROS., Kansas City, Mo.



AND WE MAKE IT.

J. D. CARMODY, Evansville, Ind.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist's.



SPHINCTER GRIP
SPRING STEEL GALVANIZED

ARMORED

Pat. 1882, '85, '86,
'88, '89, '91.

**FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,**
And for any and every purpose for which a hose
can be applied.

Sizes, ¼-inch to 4½ inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manufac-
ture is an infringement on one or more of our
Patents. The rights secured to us render each individual dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,**
Sole Mfrs and Owners of all the **Sphincter Grip Armored Hose Patents,** 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.



FIRST-CLASS CERTIFICATE OF MERIT.

**PERFECT
DRAINAGE**

BENCH TILE.

For testimonials, circulars, etc., address

W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY.

Used by all the leading
Growers and Horti-
cultural Builders.

Blue Carnations.

ED. AM. FLORIST:—I have not seen anything in your valuable journal regarding the new "blue" carnation. I had the pleasure of purchasing a boutonniere the other day with a fine McGowan in the center, around which were beautiful green blue ones. Upon examining them closely I found they were dyed with some mixture, evidently harmless to the flower, and it took me some time to solve the problem. At last, however, after trying many scientific mixtures, I dipped a couple into common washing blue, when "behold ye" they came out all spotted with blue, I rubbed the petals over with a soft small brush which made the color adhere more evenly and then dipped them in clear water and dried them off. Their color was soft pale blue and very effective; the flowers lasted two days in good condition afterwards. I do not approve of this method of obtaining blue flowers, but it is worth knowing in case of emergency.

R. M. GREY.

Orange, N. J.

A Plea for a Higher Standard.

An interesting communication on this subject, recently received from Mr. C. H. Grigg, dwells especially on the need for more thorough education in the line of floral decorating. As our correspondent says, many of the decorators are actually artists in taste, but there are many who still need a great deal of education in this line. Mr. Grigg remarks that the admirable series of articles by F. Schuyler Mathews on "The Theory of Design in Decoration," published in the *FLORIST*, must have been a revelation to many so-called decorators, pointing to the educational features of such articles. There is no doubt that a higher standard is being looked for among decorators, and their work, especially when displayed in public exhibitions, does much to educate flower buyers.

IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the *FLORIST*. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.

Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,

from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.,
NORTH CAMBRIDGE, MASS.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS

Best in the market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.

We are MANUFACTURING THE STANDARD POTS, and shall be pleased to mail price lists to all florists who wish to give us a trial.

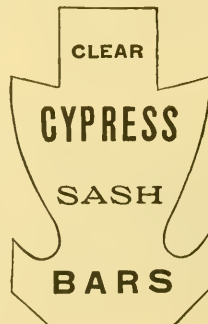
PRICES MODERATE. MATERIAL BEST.

Address

CHAS. MARKMEYER & SON, New Albany, Indiana.

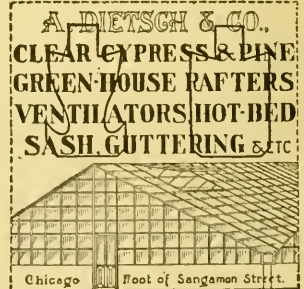
REFERENCES: Nanz & Neuner, of Louisville, Ky., can furnish information about quality of our flower pots having bought 15 years of us.

CYPRESS GREENHOUSE MATERIAL



HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.



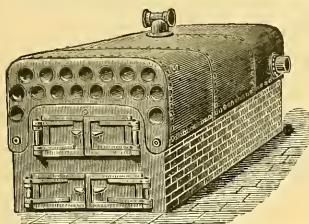
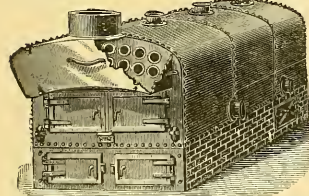
When you write to any of the advertisers in this paper please say that you saw the advertisement in the *American Florist*.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Atty,**OFFICE, 189 STATE STREET.
WORKS, 55th & WALLACE STREETS.**CHICAGO.****THE WILKS HEATER,**
FOR HEATING**GREENHOUSES, STORES, DWELLINGS, ETC.**Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**
41 to 55 Erie St., CHICAGO.Boilers made of the best of material, shell, firebox
sheets and heads of steel, water space all around
(front, sides and back). Write for information.**THE GREAT ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

201 Amity Street, FLUSHING, Queens Co., N. Y.

Always mention the AMERICAN FLORIST
when writing to advertisers.

Mention American Florist.

THE "LOCKLAND"
Sash Bars * * ***ARE ALWAYS SATISFACTORY.**This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.**GUTTER MATERIAL, RIDGES, SASH, ETC.**

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOCKLAND LUMBER CO.

Lockland, O.

**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

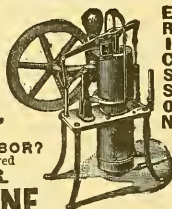
All of this can be accomplished by using the Improved

RIDER

OR

ERICSSON**HOT-AIR
PUMPING ENGINE**

Catalogue with full particulars sent on application.

DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N.Y.
Mention American Florist.**ERICSSON****D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.

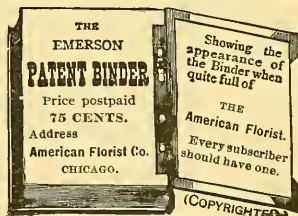
Our Glass received the Highest Award at the Boston Convention of the S. A. F.

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS

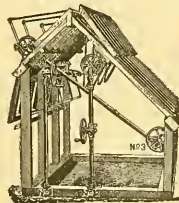
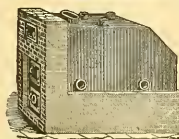
MANUFACTURED BY

N. STEFFENS335 EAST 21ST ST.

NEW YORK.

**THE
EMERSON
PATENT BINDER**
Price postpaid
75 CENTS.
Address
American Florist Co.
CHICAGO.Showing the
appearance of
the Binder when
quite full of
THE
American Florist.
Every subscriber
should have one.

(COPYRIGHTED)

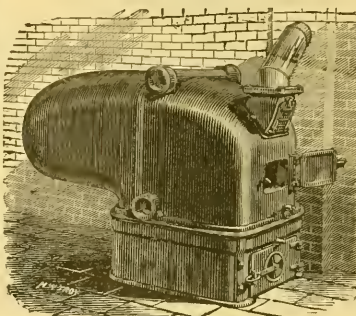
YOU CAN SAVE MONEY BY
PURCHASING
AND GLASS BY USING
Hamilton's Patent Sash Lifter.The best thing of the kind ever invented, for
either high or low greenhouses. Send for description
and price list.**BAY STATE HARDWARE CO.,**
272 Freeport St., BOSTON, MASS.**THE STANDARD Ventilating
Machines**Received best awards
atBUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.Send for Catalogue
and prices.**E. HIPPARD,**
Youngstown, O.**GREEN-HOUSE
HEATING.****Meyers & Co.,**
1173 S. Ninth St.,
PHILADELPHIA.Send for catalogue
and price list.ALWAYS mention the AMERICAN FLORIST
when writing to advertisers.

Index to Advertisers.

Abel C C & Co.	211	McFarland J H Co.	315
Adv Rates, etc.	208	McTish G A.	317
Andorra Nurseries	208	Mann & Co.	317
Biller F A.	314	Marling Hart & Co.	319
Barnard W W & Co.	311	Markiewicz C & Son.	319
Bay Co Hort Soc.	319	Marschall & Co.	319
Bayersdorfer H & Co.	315	Meyer John C & Co.	316
Baylis Henry W.	319	Michel Plant & Bulb Co.	319
Berger H H & Co.	319	Milling Bros.	319
Blanc A & Co.	316	Moffatt G J.	319
Bonsall Jos E & Son.	318	Moninger, Jno.	319
Boston Letter Co.	317	Moore Samuel C.	319
Boynton W D.	316	Moore Frank L.	317
Brazier J B.	315	Myers & Co.	319
Brauer & Reiter	316	Naiz & Neuner	318
Burns & Laynor.	319	National Hot Water	319
Burke J G.	311	Heater Co.	319
Carman R W.	319	Olson M.	319
Carmony J D.	315	Ouwkerk P.	314
Chitt E E.	315	Peck & Sutherland.	319
Connelly Jno J.	319	Pierce & Coleman Co.	317
Cook John.	317	Pennock C J.	319
De Launier Iron Wks.	319	Pennock Saml S.	319
Devine's Boiler Wks.	319	Phoenix Nursery Co.	315
D. W. J. Thomas.	319	Peterson A.	317
Detsch A & Co.	319	Peterson F R Co.	319
Dillon J J.	318	Pitcher & Mandan.	318
Dinges & Conrad Co.	319	Quaker City Mach Wks.	317
Drer H A.	311	Randall A L.	319
Eckhardt Theo.	319	Rensoner Bros.	319
Elliot W H.	319	Reisk John.	319
Edison Wm.	319	Roberts D H.	319
Faust H G & Co.	319	Rosier Theo.	319
Ferdin Lyman.	318	Rogers Nurseries.	318
Field S B.	311	Rolker A & Sons.	316
Gardening Co. The.	316	Russell S J.	319
Gardner & Co.	311	Saylor Seed Co.	319
Gibson J C.	314	Sander & Co.	311
Gonzalez & Co.	319	Schofield D C & Co.	318
Hall Asa H.	319	Schultz Jacob.	317
Hammond Benj.	317	Scullay John A.	319
Hart James.	319	Selbre P & Sons.	311
Hart Michael A.	319	Sheridan W F.	319
Hartford & Nichols.	318	Sawwood Hall Sur.	319
Henderson Mfg Co.	319	Siebrecht & Wadley.	311
Herr Albert M.	317	Sipke Doppelt & Co.	319
Hewes A H & Co.	318	Situations, wants.	319
Hill E G & Co.	317	Smith C A Floral Co.	319
Hillard E.	319	Smith Nathan & Son.	317
Hitchings & Co.	319	Spaulding T H.	319
Hobker H M Co.	319	Spencer Wm H.	319
Hulsbosch Bros.	319	Stevens N.	319
Hunt E H.	319	Stoddard Gard Imp Co.	317
Hunt M A.	319	Sundbruech H.	319
Hunter & Purdy.	319	Swayze Edw.	317
Irvine John Co.	314	Turner John P.	319
Jeffords J E & Co.	316	Tricker Wm.	319
Jennings E B.	319	Ulrich F J.	311
Joosten C H.	317	U S Wind Engine &	319
Jordan Floral Co.	317	Pump Co.	317
Kennelott Bros.	319	Vaughan J C.	319
Koffman F.	311	Waterbury Rubber Co.	317
Koster & Co.	314	Weathered Thos W.	319
Kroschell Bros.	319	Weber & Don.	319
Kuehn C A.	319	Welch Bros.	319
Laing John & Sons.	316	Whitlin Est Co.	319
La Roche & Stahl.	317	Whitehead Geo B.	317
Lee W A.	319	Wight W P.	317
Lockland Lumber Co.	319	Wilks S Mfg Co.	319
Lombard R T.	317	Wisconsin Flower Ex.	319
Long Dan L.	318		
Lonsdale Edwin.	317		
McBride Alex.	317		
McCarthy N F & Co.	319		
McFarland J H.	315		

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

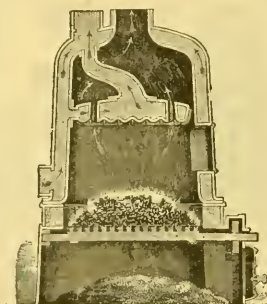
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

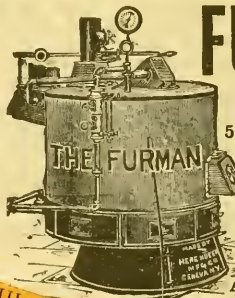
GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

Estimates of cost given, and Illustrated Catalogue furnished on application.



FURMAN BOILERS

Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address HERINGEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

The absurd "item" about the cosmos that we recently reprinted from a daily paper for the amusement of our readers has now found a place as original matter in an agricultural publication. There are some very brilliant "side-walk farmers" connected with certain sheets alleged to be published in the interest of agriculture.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S

Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

OUR NEW TRADE
DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN
and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

Goodell
Miss Aeri Col
15th 92

THE SPENCE HEATER
HOT WATER
FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, NOVEMBER 10, 1892.

No. 232

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August 1893.
The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Chrysanthemum shows	321
New York	321
—The chrysanthemum guard (illus)	323
Chicago	324
—Philadelphia	325
Boston	326
Cincinnati	326
Chrysanthemums for women's wear	327
Carnations—Seasonable hints	328
—Carnation crosses, III	328
—Chester County Carnation Society	328
Back Bay lens, Boston (with illus)	328
Shrubs for a general retail trade	318
Philadelphia	331
Indianapolis	330
Boston	332
Another christening	330
An artistically treated panel (illus)	331
New York	331
Chicago	331
Toronto	331
Rose notes from England	332
The Victoria regia	333
News notes	333
Coming chrysanthemum shows	334
The seed trade	335
Baltimore	338
St. Louis	340
Patents recently granted	312
Foreign notes	342

IN THIS ISSUE, in addition to a full report of the New York exhibition, we give reports covering the principal features of the exhibitions now in progress at Philadelphia, Boston, Chicago and Cincinnati. Further notes regarding these shows and full reports of others will appear next week.

LOOK for our cartoon "The chrysanthemum guard" in this issue, and observe the military severity of "Uncle John" while on duty as Captain of Company A.

CHRYSANTHEMUM special number next week. Extra size and very elaborately illustrated.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Chrysanthemum Shows.

New York.

Experience is the best of teachers. Hence it is that, notwithstanding the tremendous success of last season's big exhibition, this year's show may be recorded as a decided advance in many respects over that memorable event. Promptness and system, not easily attained in such an extensive undertaking, were everywhere apparent, and reduced the labor entailed upon exhibitors, judges and reporters to a minimum, and added greatly to the comfort and enjoyment of visitors.

The big Madison Square Garden was transformed into a vast bower of loveliness, and the scene, especially at night, in the soft light from myriads of suspended Japanese lanterns, with the winding paths filled with moving throngs of elegantly dressed people admiring the gorgeous blooms and listening to the music, was something once seen never to be forgotten. The galleries were shut off by white curtains gracefully draped with smilax. In the center of the Garden was a handsome fountain, the basin filled with aquatic plants. On great circular rows of curving tables were arranged the cut flower exhibits. The tables on the inner circle were of ordinary height, and on these were displayed the blooms shown on flats. The outer rows were built low, the better to show the grand collection of long stemmed flowers in vases. Flanking these tables were the great parterres and groups of specimen plants, while the small plants bearing single blooms were disposed in belts and borders immediately fronting the boxes. At each end of the vast amphitheatre was a great group of towering palms and foliage plants, which furnished to some extent the green so necessary as a foil to the somewhat monotonous masses of color on the floor, an effect which might have been greatly enhanced by the liberal use of a background of large evergreens.

The east end of the hall was occupied by J. H. Small & Sons as a booth for the sale of flowers. Their decoration was unique and on a scale seldom attempted. The central feature was a great white arch elaborately decorated with chrysanthemums. This was flanked on one side by a huge model of the U. S. Capitol at Washington done in Cape flowers, the grounds reproduced with selaginellas and adiantums, the whole lighted with tiny electric lights, and on the left by a beautiful wedding decoration, representing the chancel of a church. The background was of adiantums with a mirror in the center bearing the monogram of bride and groom, and overhead was a white canopy trimmed with asparagus, and a suspended wedding bell.

HOW THE PRIZES WERE AWARDED.

Plants.—The premiums for plants, amounting to about \$4,500, were pretty generally competed for and brought out a display far in advance of anything in the line of chrysanthemum plants ever before exhibited here. Excessive staking was not so noticeable as usual, the plants shown by Ernst Asmus being particularly free in this respect. His plants were superb specimens all through, and received many first premiums, W. H. Lincoln winning as best yellow and best of any color, Ivory as best white and Mermaid as best pink. A. G. Ramsey, exhibited by Pitcher & Manda, was decided to be the best specimen crimson. They also won first prize for single standard with a graceful plant of Hicks Arnold, and first for twenty-five novelties, a splendid assortment.

Julius Rehms came in for several first premiums for standards, and on groups of plants grown to single bloom he was also very successful, his plants being neat, not too tall, and the blooms grand.

Mr. Rehms was unfortunate in having several of his exhibits of specimen show plants disqualified through a rigid interpretation by the judges of the rule requiring that plants in this section should be grown to single stem. Many of his plants were otherwise winners, Rohallion, Ivory, Mermaid and Cullingford being among the best.

Another large and successful exhibitor was Thos. H. Spaulding who took first prize for 100 plants, single bloomed, and whose collections included many novelties and desirable varieties. P. J. Prent, Kershaw Clegg and Weimar Bros. also took premiums in various classes.

A special silver cup was awarded by Mr. Jas. Dean to T. D. Hatfield, gardener to Walter Hunnewell, Esq., of Wellesley, Mass., for the best plant in the exhibition. It was a specimen of Mrs. Alpheus Hardy and well worthy of the honor. Of miscellaneous plants there were some very beautiful and interesting exhibits. For the best group of palms and decorative plants, Siebrecht & Wadley were first with a magnificent collection, among which there was nothing more effective than a beautiful specimen of Licuala grandis. Geo. M. Stump, who took the second prize in the same class, also deserves credit for his fine group of clean, healthy plants.

For a collection of ornamental and flowering plants other than chrysanthemums, Siebrecht & Wadley were first, and Thos. McGarry second. For best specimen palm, Richard Brett was first, Siebrecht & Wadley second, the winning plant being an *Astrocaryum Mexicanum*, 10 feet high.

On specimen cypas Richard Brett got the best of Geo. Bennett with a revoluta which was superb, but had to take a back seat to G. B. Winslade on crotons,

the winning set being unusually well colored although not large. Brett was first again on ferns, G. Bergmann on cyclamens, Bonn & Dressel on dracenas, Pitcher & Manda on cypripediums, and Siebrecht & Wadley were unbeatable on nepenthes. The latter firm took first for a new and rare plant in bloom, a bromeliad, *Vriesia Lasala*, also a group of orchids finely bloomed and beautifully arranged.

The contest on best five new and rare foliage plants was between Pitcher & Manda, Siebrecht & Wadley and Richard Brett, Pitcher & Manda winning with the following set, *Dracena Desmetiana*, *Aglaonema picta*, *Maranta Legeriana*, *Tillandsia argentea* and *Adiantum cucum-catum*, var. *Weeber* & Don's mushroom prize went to W. H. Daniels.

CUT FLOWERS.

The display of cut flowers was something unprecedented both in quality and quantity. With few exceptions the schedule called for long stems and foliage in the different classes, and the flowers were exhibited in vases without artificial support. The prevailing demand for stiff stems was very apparent in the comments and in the decisions of the judges. Any variety that hung its head, be it first-class in all other respects, stood not a ghost of a show for recognition. The display made in this department, the endless array of the great vases of 6, 12, 25 and 50 blooms, was gorgeous in the extreme. Large as the building is, however, the number of flowers shown might easily have been made to cover twice the space allotted to them and at a great advantage, for they were necessarily crowded together so closely that the tints lost much of their effectiveness by the interference of other colors.

In the collections the competition was sharp and close between Ernst Asmus, Dailedouze Bros., F. T. Underhill, Pitcher & Manda and Julius Roehrs, the average of advantage lying with Mr. Asmus and Mr. Dailedouze, and on vases of one variety the number of competitors was increased by the addition of J. H. Taylor, J. Simpkins, Peter Henderson & Co., J. N. May and others. For a vase of white J. H. Taylor won with Miss Minnie Wanamaker. For a vase of yellow, P. Henderson & Co. staged their new Golden Wedding, and beat Mr. Asmus and Mr. May who showed H. E. Widener. For a vase of pink Mr. Asmus was first with Mermaid, followed by Mr. May and Mr. Dailedouze with Exquisite, and Mr. J. N. Gerard, and for a vase of crimson J. H. Taylor was first with Edw. Molyneux. In the competition over one vase of "any other color" it was somewhat singular that all three competitors Messrs. Dailedouze, May and Asmus should have staged the same variety, Hicks Arnold. Prizes were awarded in the order named. For 12 varieties of American origin, one flower of each, J. N. May was first, and for 12 ditto of European origin and of Japanese origin, Pitcher & Manda were first. The winning American varieties were Miss Minnie Wanamaker, Mrs. J. W. Morrissey, Harry May, Ada Spaulding, Mrs. A. J. Drexel, Mermaid, Col. W. B. Smith, Mrs. L. C. Madeira, Jos. H. White, Roslyn, H. E. Widener and Mrs. Robt. Craig. The Taylor medal for the best individual chrysanthemum flower was awarded to Dailedouze Bros. for a bloom of Mrs. Jerome Jones.

The *Garden and Forest* prize for the best vase of six blooms, one variety, went to Peter Henderson & Co. for Golden

Wedding. This firm also won the Cutting prize for the best vase of 50 blooms. The Eyerman prize for the best six pink went to J. Simpkins for Mermaid. The Dailedouze prize for the best six blooms of any variety introduced in the spring of 1892 was won by Julius Roehrs with Mrs. Maria Simpson.

The Henderson prize for 25 blooms of yellow went to J. Simpkins for W. H. Lincoln, and the same gentleman won the Hood Wright prize for 12 varieties, among which was the finest bloom of Domination in the hall. In the section requiring that blooms be exhibited on boards the competition was also lively with Asmus and Dailedouze in the lead. Mr. Dailedouze's set of 12 which took first premium was made up thus: Mrs. S. Hearst, Excellent, Mrs. E. D. Adams, Golden Gate, Mrs. A. J. Drexel, Viviani, Morel, Waban, Ed. Hatch, Dr. J. Calendreau, Col. W. B. Smith, H. F. Spaulding and Mrs. J. N. Gerard.

The Young Bros. prize for best 200 blooms in 40 varieties, 5 of each variety, was won by Ernst Asmus. In addition to varieties already enumerated as prize winners there were noticeable in this collection the following: Mrs. Irving Clark, Ivory, Flora Hill, Mrs. M. J. Thomas, Emma Hitzeroth and L. Carlisle.

Other varieties which showed up particularly good in different collections were Mrs. John White, Eda Prass, Mrs. John Gardiner, Mrs. Robt. Craig, Miss Mabel Simpkins, Emily Ladenburg and Olga.

THE SEEDLINGS.

The exhibition of seedlings scheduled for Friday was looked forward to with intense interest by the trade and the chrysanthemum lovers and the attendance of experts from all parts of the country was very large. When staged they presented a grand appearance and were constantly surrounded by enthusiasts, notebook and pencil in hand. The general public did not, however, pay any very special attention to this department except in the case of one or two varieties which had been well advertised. The number of seedlings shown was probably not as large as last year, but the average of quality was far ahead, the exhibitors having learned, apparently, the uselessness of bringing a lot of stuff inferior to already existing varieties. The approach to symmetry and regular fullness of flower was very apparent to one who has observed such collections in past years, ragged, twisted, open eyed and generally eccentric characters seemingly having been gradually hybridized out of existence. Only an occasional pompon or anemone was to be seen. A great many of the seedlings were shown under number. A description of these, no matter how good, would be of little use, so only the best of those exhibited under name will be referred to here. Not less than six blooms of each variety competing were required to be shown, and in all cases with long stems. Awards were as follows: Best white to W. S. Waby for The Queen, an immense incurved, improvement on Flora Hill. Best yellow to Pitcher & Manda for Mrs. F. L. Ames, a brilliant orange yellow, very robust, style of Lincoln. Best pink to John Keane for Pride of Englewood, a handsome flower but hardly a pink, nearer to a light garnet rather.

For best bronze to E. G. Hill & Co. for Robt. McInnes, approaching in color Mrs. C. H. Wheeler, but much fuller in center. For best any color to E. G. Hill & Co. for Mrs. J. W. Crouch, an immense incurved amaranth. For any variety exhibited

previous to 1892 but not yet in commerce, to F. T. Underhill for Emily Ladenburg. For best collection of seedlings not yet in commerce, to J. N. May for a set of about 35 varieties.

Certificates of merit were given to the following varieties: Exhibited by J. N. May, Thos. H. Brown, a large incurved bright pink, very early; Gloriana, bright lemon, petals incurving and very broad; Fascination, pale lemon, in way of Rohallion; Yellow Queen, very early, petals broader than Mrs. J. G. Whilldin; Portia, a soft pink, in way of Bride of Roses; Miss Frances Thorley, an immense white; Truth; Summit, white, reflexed, a perfect globe; Creole, dark scarlet, somewhat in style of Emily Ladenburg.

To E. G. Hill & Co. for W. G. Newitt, a big white, style of Mrs. E. D. Adams. To Thos. H. Spaulding for M. B. Spaulding, a splendid light yellow which was certificated at Phila. last year; for Wm. Plumb, a lovely flower resembling Ada Spaulding, but deeper in color, as regular in form as a dahlia, but possibly not quite large enough for prevailing demand. To Dailedouze Bros. for Wm. Brown, a strong robust grower. To Thos. Monahan for Black Beauty and Goliath. To Geo. Bennett for Ada Strickland, an exceedingly fine bronze anemone. To Pitcher & Manda for Mrs. Leslie D. Ward, a birsute buff bronze, full double, and for Mrs. Bayard Cutting, an enormous flower in way of Mrs. Irving Clark, but better form, pink, shaded to violet rose in center showing up especially well in the evening. Also to Richard Brett for a collection of seedlings exhibited under number and comprising some very promising varieties.

Among other seedlings worthy of mention were the following: By Nathan Smith & Sons, Harry Balsley, pink; Miles A. Wheeler, bronze; Mrs. M. W. Redfield, a pink shaded Ivory; Redone, showy bronze, and Alba Venus, feathery white. By John Keane, Mrs. Gen. Duncan, yellow, very long whirled petals. By E. G. Hill, Departure, reflexed, color of Mme. Cusin rose, and Amber Queen, orange bronze, very full flower. By Thos. F. Spaulding, Josephine Hone, deep apricot, incurved; Mrs. W. F. Wharton, white; Mrs. J. M. Schley, soft pink incurved. By Pitcher & Manda, Mrs. H. McK. Twombly, style of Robt. Bottomley, and Miss Madge Clark, a showy reflexed Japanese, deep pink. By J. N. May, Black Prince, as dark as Prince Camille de Rohan rose, but too open in center; Illuminator, orange, in way of E. G. Hill; Judge C. H. Benedict, yellow shading to deep orange in center, very large; Flossie, Chinese reflexed; and The Rhine, a large incurved deep pink. By Hugh Graham, Leila, a strong bright pink, full long twisted petals, and Mrs. Gracie Lippincott, a tremendous yellow incurved. By A. F. Schrader, Mrs. A. C. Combes, an improved Langtry; also Geo. M. Stump, a fine incurved pink Japanese. Geo. Bennett has in Oscar a great acquisition in color, the purest soft pink, but the flower is rather weak. John Dallas also showed some promising seedlings.

ROSES, CARNATIONS, ETC.

The display of roses on Wednesday and Saturday was from J. H. Taylor, Ernst Asmus, F. R. Pierson Co., W. H. Young, J. N. May, Thos. J. Slaughter, C. & J. Slaughter, J. E. Mathewsen, John Reid, and other well known growers for the New York market, these names being a good indication of the quality of the roses shown, which included all the popular varieties from American Beauty



THE CHRYSANTHEMUM GUARD. COMPANY A.

down to Papa Gontier, and attracted at all times a throng of admirers.

Of the special premiums the Whitney Cup for the best seedling rose of American origin, not exhibited previous to 1892, was awarded to J. N. May for the Mrs. W. C. Whitney, a hybrid between American Beauty and Souvenir d'un Ami.

The Lanier prize for the best new seedling of European origin, not exhibited previous to 1892, was awarded to Ernst Asmus for Mme. Caroline Testout.

The Taylor Cup for best 50 new pink roses was won by John Burton, the variety shown being a sport from American Beauty named American Belle.

The Asmus Cup for 200 Gontiers and the Ladenburg Cup for display of 600 blooms were won by J. H. Taylor, and the Pierson Cup for the most promising rose of recent introduction by Ernst Asmus with Kaiserin Augusta Victoria.

The show of carnations was superb and was pronounced the best ever seen here. For 50 white Weimar Bros. were first with Silver Spray, Wood Bros. won first for yellow with Buttercup, Fred Dorner first on pink with Wm. Scott, Ernst Asmus first on red with Fred Dorner, Geo. Bennett first on variegated with American Flag, and H. E. Chitty took first for collection of named varieties.

The Clews Cup for best seedling carnation was awarded to Jahn Bros. for Josiah Eaton, Jr., a handsome white. In a later article the seedlings exhibited on this occasion will receive further attention.

MISCELLANEOUS.

First for white violets went to David Irving, for purple violets to H. C. Saltford, for mignonette to Dailledouze Bros., for lily of the valley to Ernst Asmus. A fine show of French cannas was made by F. R. Pierson Co., of tuberous begonias by Oasis Nursery Co., of Gros Guillaume grapes by the same, and of Erica Willmoreana by Louis Dupuy.

HOSPITALITIES.

On the morning of the opening day of the exhibition the judges were invited to breakfast at the new club rooms of the N. Y. Florist Club. The rooms were handsomely decorated by Young Bros. and C. B. Weathered, and the breakfast was served by Andrew Hunter, Sup't at H. B. Kirk & Co. A speech of welcome was made by Mr. May and responded to by John Westcott and Ed. Lonsdale. In the evening a banquet was given by the Madison Square Garden Co. to the judges, officers of the club and other invited guests, about 40 gentlemen being present, President Dean of the Florist Club pre-

sided, and after the elegant repast had received due attention made an address of welcome to the visitors, on behalf of the N. Y. Florist Club. Mr. A. Ladenburg followed with words of welcome on behalf of the Garden Co. Speeches followed by Mr. E. A. Wood on behalf of the judges, Mr. W. R. Smith for the Society of American Florists, Mr. Robert Craig for Horticulture at the World's Fair, Mr. W. A. Stiles for the Horticultural Press, Mr. J. V. Gottschalk for The Press, and Mr. J. H. Small, Jr., for the Art of Floriculture, after which Secretary Morrissey invited the guests to attend the theater. The whole affair was elegantly gotten up and thoroughly appreciated by all present.

PRIZE DINNER DECORATIONS.

By Christine Terhune Herrick. The decorated dinner tables were the principal attractions on Saturday afternoon. Apparently the judges had some difficulty in making their decision as to the comparative merits of the exhibition. Announcement had been made that the verdict would be rendered at 2 o'clock, but it was after 4 when the result of their deliberations was made known.

The first prize was taken by Thomas H. Spaulding. The table was round and not very large. It was covered with a white cloth, and in the middle was a square center piece of white damask, heavily worked with gold. The flowers were H. E. Widener chrysanthemums and were arranged in a circular mass, that almost concealed the center piece. The four small lamps that lighted the table were draped with shades of yellow chiffon. The china was yellow and white, and the glass was nicely gilded. There was a squad of nine glasses at each plate, and the display of both silver and glass was very elegant. The cakes, bonbons, etc., were all in yellow and the only contrast of color was afforded by the deep purple of two dishes of black Hamburg grapes. A large yellow chrysanthemum like those in the middle of the table, lay at each plate. The chief criticism to be made upon this table was that the flowers in the center were so high as to preclude the possibility of the guests on one side of the table seeing those on the other.

There was a good deal of comment made upon the fact that the second prize was won by Carl Berger, a caterer. His table was square, and the flowers, Mrs. W. H. Waterbury chrysanthemums, relieved by maiden hair ferns, were arranged in a square bank in the middle of the table. Siebrecht & Wadley furnished

the flowers. The color scheme was not so well carried out here as at Spaulding's table, for the large ormolu candelabra that stood at each corner were provided with bright yellow shades of crimped paper. The bonbons were also yellow, while the boutonnières were each a Waterbury chrysanthemum. Gilt chairs were placed around this table, of which the chief advantage was that it allowed plenty of elbow room.

The third prize was taken by Warendorff. This table was decorated in yellow and white, and was round and larger than Spaulding's. About the edge was draped a strip of yellow crepe, caught here and there by butterflies of white satin ribbon, that reminded the irreverent observer of the inside trimmings of a coffin. Except for this trifling fault, the table was very artistic. The china was gold and white, the glass was gilded, the bonbons were yellow and the tall crystal candelabra bore yellow shades. The floral decorations were of Wanamaker and Meteor chrysanthemums, and were arranged in a circular form.

FRAGMENTS.

Exhibits and floor work generally were under the direction of Mr. Dean and Mr. Plumb.

Judges and office work were in charge of Mr. May, assisted by Mr. McCrowe. Reports of awards, etc., were typewritten and ready for distribution to the press at 4:30 each day.

The music was grand. It was indispensable, and contributed not a little to the success of the exhibition.

The visitors during the evenings especially represented New York's highest society. Swallow-tailed coats were everywhere.

The judges could not please everybody, and there had to be a little "kicking." But that will always be.

The soft light from the Japanese lanterns was very dreamy and effective, but the critics did not appreciate it, for it was impossible to distinguish shades of color under it.

J. H. Small & Sons were apparently well repaid for their enterprise. Chrysanthemums sold "like hot cakes" in the evening.

It was much to be regretted that the weather should have been so unpleasant during so large a portion of the exhibition week.

There were no entries in the class calling for carnations not less than 3 inches in diameter. Wonder what has become of them all.

The silver cups, etc., for the special pre-

miums were displayed all together in a glass case, and made quite a show.

Second and third premium cards had a way of disappearing from the exhibits on which they were placed, whereas first premiums were always on deck. Very unaccountable.

There were visitors from everywhere, east, west, north, south, but Boston and Philadelphia furnished by far the largest contingent.

Some plant experts were in a high state of excitement because *Aralia integrifolia* was labeled *Croton tiglium* in one of the plant exhibits.

Mr. Thos. Young, father of the Young Bros., was an interested visitor. He looked so hearty that he might easily be taken for one of the brothers rather than the father.

Pink seems to be a color more difficult to define than any other with which florists have to deal. American Belle was the subject of controversy as to its right to the name of pink.

The Evening *Star's* picture of *Cycas revoluta* was a very sad attempt, and almost justified the title displayed under it, *Cycas revoluta*.

Edna Craig did not arrive from Philadelphia in time for the carnation competition. She was in charge of John Walker, whose train was unfortunately delayed two or three hours. John Walker should have walked.

The admonition regarding dirty pots was universally heeded, and the plant exhibits profited greatly thereby.

Mr. Dean says that an exhibitor who does not give notice of intention to show, ought to be debarred; that a man who promises to exhibit in a certain class and then fails to do it, should put up a forfeit; and that when a man accepts the position of judge he should be there. Those who have ever had any experience in managing exhibitions will probably "second that motion."

Those Japanese girls! Well, "boys will be boys."

Chicago.

The opening day of the show was devoted to plants and cut flowers, chrysanthemums naturally taking the lead. The general effect of the hall was extremely good. It was draped profusely with the Columbian colors, red and orange, which became so familiar during the late celebration. The rear end was hung with the national colors and there was an abundance of electric light. The arrangement of plants and flowers was very tasteful, and the general effect of the show was particularly handsomer than last year. J. A. Pettigrew, superintendent of Lincoln Park, was manager of the exhibition, assisted by F. Kanst of South Park.

It is a noticeable fact that the cut blooms were much more meritorious than the plants. The present tendency in the trade is towards the cultivation of small plants of dwarf habit; there is a decided feeling that the large tall-growing plants do not pay. No plants of unusual size were seen at this show. The individual best plant in the entire show was not entered for competition, a plant of Ivory from Lincoln Park greenhouses. It was not over three feet high, pot and all, and fully four feet across, having close upon 150 blooms. It was an ideal pot plant, but this variety is always remarkable for its excellence under these circumstances.

In the group of ten specimen plants, ten distinct varieties, first prize of \$125 was

taken by O. P. Bassett, second of \$75 by J. C. Vaughan. Many of the plants were much too stalky and the flowers weak. For specimen plant, first was taken by J. C. Vaughan, second O. P. Bassett. For four white, O. P. Bassett first, J. C. Vaughan second. Mr. Bassett also took first for four pink and four yellow. These two exhibitors made the largest plant display at the show, the greatest number of prizes being divided between them. For specimen white, J. C. Vaughan received first, O. P. Bassett second; specimen yellow, the same. Specimen pink, O. P. Bassett first, J. C. Vaughan second. Specimen any other color, J. C. Vaughan first, O. P. Bassett second.

The single-stem plants were much better in the matter of bloom than the specimens, as they always are, and there were some very nice plants among them, though some few had a tendency to stalkiness. In the group of 25 plants O. P. Bassett was first. Mrs. L. C. Madeira made good showing among the yellows. The flower is an extremely regular incurved globular shape, rich yellow, and it has a good habit. There is little doubt that we are drifting towards a revival of the regular globular shapes, and perfect flowers of this type will become the favorites. Another very good variety seen in Mr. Bassett's group was Mme. Marie Hoste, a large and shapely reflexed white flower, with an extremely vigorous habit. The same variety was noted among Mr. Vaughan's cut blooms; its strong growth and abundant foliage is really remarkable, and combined with its fine flower, should make it a valuable commercial variety.

For 100 plants in variety, O. P. Bassett received first, J. C. Vaughan second prize. For 50 plants in variety, Mr. Bassett received first. Competitors in the standard class were E. G. Hill & Co., Richmond, Ind., who took first, and J. C. Vaughan, second. For single specimen standards the awards were the same.

The cut blooms were really of very great interest and merit. The largest bloom shown was Flora Hill, while, judging from comments heard here and there, the greatest favorite with the public was Viviani-Morel, of which many fine blooms were shown. In the general display, not less than 40 varieties, Frank Leslie took first prize, J. C. Vaughan second. Both competitors showed excellent blooms. Harry Balsley seems a favorite among exhibitors of cut blooms; it is very large and showy and a charming light pink, rather like Daybreak carnation. It would be hard to say it excels V. H. Hallock, but it is a close competitor. Mermaid, which seems to have been such a favorite in New York, did not show to such advantage here. Viviani-Morel was another favorite in pink; the flowers shown were superb, large and fully petalled, a very taking color, and provided with a good stiff stem. Seems a very valuable sort in its color. Ed. Hatch was another grand flower, but it is a little weak in the stem.

For 25 blooms, 25 varieties, first prize was taken by E. G. Hill & Co., second Nathan Smith & Son, third J. C. Vaughan. All three were good exhibits. Among the amber varieties Golden Gate and Tuxedo were particularly good; the abundant narrow petals of the latter, something in the style of Viviani-Morel, gives it a distinct character and it is very full. Some of the experts put Tuxedo at the top as the best of all ambers. Ernst Asmus is another good amber, seen in good condition here.

E. G. Hill & Co. received first for four

vases, six blooms in each. The varieties used were Pres. W. R. Smith, Jennie Williams, Red Prince and Widener, all fine flowers. Red Prince is a very fine incurving Japanese, extremely warm red, almost cardinal, with broad petals, but it is hardly full enough, showing too much of the yellow center. This, though not always objected to, is rather a defect, for there is no doubt whatever that we are on the eve of a reaction against ragged flowers, and shall return, in a modified form, to the symmetrical and globular form of the older types.

The prizes for two vases, 12 blooms in each, were taken by Frank Leslie, Lake Geneva, Wis., first; E. G. Hill & Co., second; and J. C. Vaughan, third. Some superb Harry Balsleys took first.

Ten blooms, varieties introduced in 1892, first, Nathan Smith & Son; second, Frank Leslie. One vase of 12 blooms, first, J. C. Vaughan; second, Frank Leslie.

A very fine exhibit, both of plants and cut flowers, was made by Mr. Strombach, gardener at Lincoln Park, not for competition. His cut blooms were of remarkable excellence, containing a great many of the newest sorts. Among them was Spartell, which is introduced as an improved Louis Boehmer; it is a better color than Boehmer, but not otherwise remarkable. Among the crimson, as seen throughout the show, there can be but one verdict—that G. W. Childs is the finest of all flowers in that color. Among crimson bordering on amaranth, Mrs. A. J. Drexel showed great value; it is very full of petals, and a good shape. John Thorpe still holds its own, being seen in good quality. Mrs. Robt. Craig took well as a globular white, very large and shapely, as perfect in its type as Mrs. L. C. Madeira is among globular yellows.

Next to Ivory, Zambesi made one of the most shapely plants; dwarf in habit, with clear yellow flowers, it should be a success for market purpose. It is one of this year's introductions. Ernst Asmus is also valuable for this purpose, so is Whildin.

Harry May still holds its own, which is not always the case with chrysanthemums a year after their debut; some very fine flowers of this sort were shown.

Varieties of 1892 were naturally of interest. Emma Hitzeroth is a beauty; immense incurved flower of lemon yellow. Mrs. Gov. Fifer, large irregular cream white flower, is fine grown to single stem, but rather poor otherwise. Mrs. C. W. Avery made a good show among yellows. Ed. Hatch, though a showy exhibition flower, is too weak in the stem. Mrs. Maria Simpson is a very fine incurved yellow; it has a good habit for pot culture. Internationalis is a very good cream white, reflexed, with a good habit. Oeta, a late-flowering amber, has a good dwarf habit. This habit should be aimed for by growers; it is of as much, or more value, than merely the production of large blooms. Among our older friends were Mrs. E. W. Clarke, Domination, Jessica, J. C. Vaughan, Mrs. A. Blanc and Rohallion. By the way, where was Mrs. Alpheus Hardy?

Premium for group of decorative plants brought out some very good stuff, well arranged. First prize went to H. F. Halle, whose group, though not remarkable for the size of the specimens, was arranged with great taste. A fine *cyas* crowned the group and all the plants were well grown and clean. Second prize went to Albert Fuchs; third, E. Weinholer & Co.; the groups containing some excellent plants in very good order.

For specimen plant other than palm, L. Inc took first with a very good *Araucaria excelsa*; J. C. Vanghan, second with a tree fern. For twelve palms, J. T. Anthony was first—very good plants; Albert Fuchs, second. For collection of orchids in flower, prize was taken by Geo. Stollery, gardener to W. H. Chadwick. Some excellent *Lycaste Skinneri* were among the orchids and the plants were grouped with anthuriums, marantas and ferns with most charming effect. An adjacent group, arranged (not for competition) by E. G. Uihlein, divided the honors; it contained some fine cypripediums in bloom and was very well arranged. A good plant of *Adiantum Farleyense* excited much admiration, and all the orchids were viewed with great appreciation by everyone.

The cut roses, for which prizes were offered by the Chicago *Inter Ocean*, were generally far below the mark; the continued bad weather is accountable for this. The prizes were as follows: 12 American Beauty—first, Peter Reinberg; second, Albert Fuchs. 12 Catherine Mermet—first, Albert Fuchs. 12 Duchess of Albany—first, Peter Reinberg; second, Albert Fuchs. 12 La France—first, Peter Reinberg; second, Albert Fuchs. 12 Mme. Hoste—first, Albert Fuchs. 12 Mme. Pierre Guillot—the same. 12 Meteor, Peter Reinberg. 12 Papa Gontier—second, Albert Fuchs. 12 Perle des Jardins—first, Albert Fuchs. 12 Sunset—the same. 12 Brides—first, Peter Reinberg; second, Albert Fuchs. For 12 blooms, any other variety, E. G. Hill & Co. took first with the new Mme. Caroline Testout, a very beautiful thing, and the finest rose there; second, Peter Reinberg. General collection of roses, first, Peter Reinberg.

In the carnation classes, F. W. Timme took first for 12 named varieties and 50 blooms, red, while E. G. Hill & Co. took first for 50 blooms pink with the new Edna Craig. This variety was the object of many very flattering comments. A special certificate of merit was awarded to Nicholas Singler, Morgan Park, Ill., for meritorious group of seedling carnations. Special certificates were also given for the Lincoln Park display and for a group from the Department of Horticulture of the World's Fair, which included some fine single-stem chrysanthemums. More particular comment on varieties, as well as events of the three succeeding days of the show, must be left until next week.

The attendance the first day of the show was more than double that of last year.

Philadelphia.

The chrysanthemum show of the Pennsylvania Horticultural Society opened under very favorable auspices, the attendance on the first day being about twenty per cent. better than the same period last year. The exhibition was a grand one in every respect. In the first place the hall is beautifully decorated, while every nook and corner of the building is occupied with the exhibits, the entry lists being larger than ever before.

The quality of the cut blooms is above the average, and the foyer where most of the cut flowers are staged presents quite a different appearance as all flowers shown were obliged to have stems 12 inches long. The exhibit of Hugh Graham was particularly fine, and as a result he captured nearly all the first premiums. In his collection of fifty we noticed particularly five blooms of Harry May, Frank Thompson, Widener, Miss

L. Cartledge, Exquisite, E. Hitzeroth, Mrs. Drexel. A seedling of his named Mrs. Craig Lippincott is, we think, bound to make a sensation; it is a very large flower, the same color as Lincoln, has a good stem, is said to be a strong grower and comes in with Gloriosum; the flower is something like Mrs. M. J. Thomas in having very broad petals but it is more globular in shape and not so compact; some flowers have measured 10 inches in diameter. Another of fine quality is Mrs. Charles Sharpless; it is what might be called a white Rohallion, being in every respect like that variety but white and a trifle larger. Ivory was clearly the best white in the show, a vase of this variety exhibited by Fred. R. Sykes, taking first premium. We doubt if any such specimens of this variety were ever shown before; they were grand! A vase of Mrs. M. J. Thomas exhibited by Pennock Bros., was also very fine. Twelve blooms of Louis C. Madeira by Robert Craig attracted a great deal of attention.

A seedling named Miss Sue Price, raised by R. G. Carey, received first prize and also certificate of merit as the best pink; it is a lovely light shade of pink, being clear all through the flower, which is of medium size; it is of the same form as Rohallion, and is quite distinct from anything in the show. A vase of Golden Wedding, exhibited by Peter Henderson & Co., was very much admired; it is certainly a remarkable variety. Another seedling of Hugh Graham's we nearly forgot to mention, was one named Mars; it is like Cullingfordii, but larger and not quite as bright, but a very pretty variety.

Mr. Jos. Heacock, of Jeukintown, staged some very fine blooms, as did also Robt. Craig, David Cliffe and others whose names appear on the list of premiums awarded.

The cards bearing the names of the varieties in the Graham collection were attached to the stems a few inches below the flowers with "Mace Fasteners," such as are used for fastening legal papers together; these present a neat appearance and are quickly attached. It grieves us to say that of Mrs. Alpheus Hardy, one of the finest chrysanthemums ever introduced, there were only three cut blooms and one plant in the show. It should not be turned down in this way; it seems to require care to grow it well, but good blooms are beautiful and will sell readily. Where was Annie Manda of the same class? None were on exhibition.

A collection of orchids by Edwin Lonsdale, the only one of the exhibition, was highly appreciated and much admired. Some fine pans of cypripediums were in the collection; amongst them were several different types; in these the dorsal sepal has a complete border of white instead of being tipped as in *insigne*, and the brown spots shade off on the edge of the sepal to a delicate purple shade. There were also some fine plants of *Dendrobium formosum giganteum*, one of them having five spikes bearing in all twenty flowers.

A vase of Snow Crest daisy almost as large as a chrysanthemum was shown by J. C. Gibson.

The collection of cut carnations was very complete, all the prominent varieties being shown. A. M. Herr had some fine vases. Among the new meritorious varieties we noted J. J. Harrison, blush striped pink; Puritan, fine white; Golden Triumph, a good yellow of fine form. Griffin Bros. exhibited a vase of a fine

pink, similar to Grace Wilder, and said to be a stronger grower; it is called Mme. Rowland. Edward Swaynes showed a fine lot of Sweet Brier, a seedling of a very pretty shade of light pink, apparently a good grower. Edna Craig was shown by Robert Craig, and suffered none by comparison with the others. H. E. Chitty had also a fine collection.

John Burton exhibited a large vase of his new rose, American Belle, which caused favorable comments on all sides, some even claiming that it would take preference of American Beauty. The exhibits of roses attracted a great deal of attention as they always do. Messrs. Heacock, Graham, and Lonsdale among the growers, and Pennock Bros. Heron & Nesbit, J. Kift & Son, and Crawford, for the retail florist, made quite large exhibits. A seedling, Mrs. W. C. Whitney, was exhibited by John N. May; this is an American seedling, in form similar to Bennett, and in fragrance also suggesting Bennett, in color it is a light pink; it is said to be a seedling between Souv. d'un Ami and American Beauty.

First premium of \$100 for 10 plants was awarded to James Verner for the fourth year in succession; J. W. Colflesh; second; John McCleary; third; W. K. Harris special. W. K. Harris secured firsts in specimen plants—white, L. Canning; yellow, L. C. Madeira; six single flowering sorts; six new varieties never before exhibited here, and best specimen plant, new variety, same condition; 25 plants, 25 varieties, 6-inch pots.

James Verner took the Wootton, Pembroke, Drexel, Rummynede, Clothier and Blanc prizes, the latter for seedling plant in bloom, a beautiful delicate pink named Mrs. G. W. P. Drexel.

Lillian B. Bird showed well as a pot plant, so also did Mrs. L. C. Madeira. Ada Strickland was the only anemone in the show. Kioto, Robt. Bottomley, Mrs. Bullock and Grandiflorum are still good as exhibition plants. W. H. Lincoln still good everywhere either as pot plants or for cut flowers.

An interesting display of new and rare evergreens was contributed by Samuel C. Moon, which added considerably to the decorative features at the entrance to the hall.

THE AWARDS IN DETAIL.

Specimen plant, white: first, Wm. K. Harris; second, Henry G. Stanton; third, J. W. Colflesh. Specimen plant yellow: first, Wm. K. Harris; second, J. W. Colflesh; third, Henry G. Stanton. Specimen plant any other color: first, J. W. Colflesh; second, Wm. K. Harris; third, Henry G. Stanton. Six single flowering, six sorts: first, Wm. K. Harris. Four specimens, first, Wm. K. Harris. Four specimens, first, Wm. K. Harris; second, Wm. K. Harris; third, Henry G. Stanton.

Amateurs' list plants in pots—collection of four plants: first, James Verner, gardener for A. J. Drexel; second, John McCleary, gardener for William Wightman. Specimen plant white: first, James Verner; second, John McCleary; third, Patrick Conlan. Specimen plant yellow: first, James Verner; second, John McCleary; third, Patrick Conlan. Specimen plant any other color: first, James Verner; second, John McCleary; third, Patrick Conlan.

Plants in pots, growers list—collection of ten plants ten varieties: first, James Verner; second, J. W. Colflesh; third, John McCleary; special, Wm. K. Harris. Collection of six new varieties never before exhibited at the shows of this society:

first, Wm. K. Harris; second, John McCleary; third, Robert G. Carey. Best specimen plant never before exhibited at the shows of this society: first, Wm. K. Harris. Four standards four varieties: special, Patrick Conlan, \$30; special, Wm. K. Harris, \$20; third, John McCleary. Specimen standard: first, Patrick Conlan, second, Wm. K. Harris; third, John McCleary. Twenty-five plants, twenty-five varieties in six inch pots: first, Wm. K. Harris; second, Jno. W. Colfesh. Specimen grafted plant: Wm. K. Harris. Six specimens, six varieties: first, Herman Brusehaber; second, J. W. Colfesh; third, Wm. K. Harris; fourth, John McCleary. Four specimens, four varieties: first, J. W. Colfesh; second, John McCleary; third, Wm. K. Harris. Wootton prize: first, James Verner; second, Gilmore & Dougherty. Pembroke prize: James Verner. Record prize: first, John McCleary; second, J. W. Colfesh. Drexel prize—best plant of Mrs. A. J. Drexel: James Verner. Runnymede prize: first, Jas. Verner; second Wm. K. Harris. Clothier prize: James Verner. Blanc prize: James Verner. Llynwold prize: John Harris, gardener to Mrs. H. J. Hart. Sugarloaf prize: Thomas Monahan. Whildin prize: Thomas Monahan. Twenty blooms Mrs. J. G. Whildin Thomas Monahan, first.

Collection of orchids: Edwin Lonsdale, first. Twenty-five ornamental foliage plants: Thomas Long, gardener to A. J. Drexel, first; Wm. Joyce, gardener to Miss Baldwin, second. Fifteen decorative plants, Wm. Joyce, first. Specimen plant any variety, Wm. Joyce. Twelve crotons, Thomas Long first, Robert Craig second. Specimen croton, Thomas Long first. 25 palms, Thomas Long first. Specimen palm, Wm. Joyce first. 25 ferns, Thomas Long first. Collection of lycopodiums and selaginellas, Wm. Joyce first. Six marantas, Thomas Long first, Wm. Joyce second. Specimen maranta, Thomas Long first. Six dracaenas, Thomas Long first. Specimen dracaena, Wm. Joyce first. Special premium group of plants, Robert Craig. Special premium table of plants, Charles D. Ball. Special premium to Herman Brusehaber for three plants, three varieties. Silver medal for a new seedling, John N. May for Pink Pearl. Certificate of merit, John N. May for Fascination. Certificate of merit, William Tricker for Fairview. Certificate of merit, Hugh Graham for Rosstrevor. Silver medal, Hugh Graham for Mrs. Craig Lippincott. Certificate of merit, Robert Cary for Miss Sue F. Price; Robert Craig, for unnamed seedling; Wm. K. Harris for unnamed seedling, No. 12; William Jamison, for Mr. R. I. Mason; Henry D. Surman, for unnamed seedling, No. 1; Henry D. Stanton, for Mrs. Mary E. Simons; John McCleary, for unnamed seedling. Silver medal confirmed, John Burton, for new pink rose American Belle. Special mention, John O. Gorman, gardener for A. H. Moore, Colman station, for hanging baskets and chrysanthemums; David Emery, gardener for Chas. Dissel, for Ixora Dufii, Allamanda Schottii, Medinilla magnifica and anthuriums.

Boston.

As we go to press the chrysanthemum show of the Massachusetts Horticultural Society is in progress. That chrysanthemums have lost none of their popularity in Boston at least is evident if the crowds that throng the halls are any index, and that the gardeners still hold their interest is proved by the magnificent plants on exhibition. Up to the present year

plants in Boston have been not quite up to the standard of some other cities but this year plants are shown which are the equals of anything ever shown in this country. This is especially true of those from Waban Rose Conservatories and Walter Hunnewell. The set of six from Waban Rose Conservatories, consisting of Hicks Arnold, Domination, Lincoln, E. G. Hill, H. Cannell and E. D. Adams, are superlatively grand and a number of Walter Hunnewell's are well deserving of the same description. This exhibit fills nearly the whole length of one side of the upper hall. One plant of Louis Boehmer is the best done specimen ever shown here, and Ivory, Cullingfordii, Mrs. Walter Baker, A. G. Ramsey, Mrs. Fottler, Etiole de Lyon and others, are also superb. The pretty little pompons Madame Mielletz and Stella were greatly admired and the decadence of this class regretted with good reason, for they would add very much to the variety and attractiveness of the exhibition.

The stage is filled with a gorgeous mass of small market plants from W. H. Elliott, who takes the lead here in this class. C. M. Atkinson shows a grand group of all classes and sizes beautifully arranged and first-class in every respect. Doctor Weld and S. C. Lawrence also exhibit fine collections.

The lower hall is given over to the displays of cut blooms. There are not so many as in former years but it is the poor ones that are missing. Here Boston's superiority in the matter of cut blooms is plain and undeniable. On the stage are fifteen enormous vases of specimen blooms, the largest one standing six feet high. This vase is from John Simpkins and is the finest lot of long stemmed blooms in the hall. Other vases of only slightly lower average are by Mrs. A. D. Wood, Mrs. E. M. Gill, C. V. Whitten, F. B. Hayes and Geo. M. Anderson.

For best vase, ten blooms, red, Waban Rose Conservatories was first, with Edward Molyneux; and G. M. Anderson second, with Cullingfordii. In pink Waban Rose Conservatories first, with V. H. Hallock; C. V. Whitten second, with Ada Spaulding. In white, Waban Rose Conservatories, first with Domination; and J. Simpkins second with Wanamaker. In yellow, Waban Rose Conservatories took first and second with Lincoln and Widener. In any other color Waban Rose Conservatories won with a grand vase of Harry May.

Another class which brought out a magnificent display was that calling for six vases of six named varieties. Galvin Bros., won first with Madeira, Fottler, Lincoln, Pelican, Ivory, Irving Clark and Harry May. These blooms were simply wonderful.

Elijah A. Wood took several first prizes for cut blooms, among his best winners being Etiole de Lyon, Hatch, Jerome Jones, Roslyn, Christopher Columbus, Miss Helyett, Maud Dean, Abbie Mendenhall and Marguerite Jefford.

The first prize set of twelve Japanese from J. Simpkins was said to be the best twelve blooms ever shown here. It was made up as follows: Maria Simpson, Olga, Harry May, Wanamaker, Ada H. Leroy, Jerome Jones, Shenandoah, Eva Hoyt, Roslyn, Mermaid and Wheeler.

The winners on six incurved, by E. A. Wood, were Mabel Ward, Hero of Stoke Newington, Mrs. Heale, Alfred Salter, Pietro Diaz and Madeira. C. V. Whitten also showed many favorites in best style, such as May, Lincoln, Spaulding, Etiole de Lyon and Widener.

The seedlings were few in number but good. The best red was Oxblood, by G. B. Gill. Best pink, one unnamed from J. Eaton, Jr.; color close to Daybreak carnation. Best white, J. Simpkins, an unnamed white Rohallion. Best yellow, Pitcher & Manda, Mrs. F. L. Ames. Best any other color, an unnamed one from J. Eaton Jr., scarlet incurved outside of petals golden; very handsome.

Other seedlings of merit were New-market, an immense white from C. D. Kingman; a yellow Mrs. Fottler, from A. H. Fewkes; M. A. Wheeler, from Nathan Smith & Sons; Red Cap, from Geo. B. Gill; and others from E. A. Wood, Geo. Hollis and J. Simpkins.

Walter Hunnewell, A. H. Fewkes and Geo. B. Gill also showed good general collections.

The new rose American Belle, from John Burton, was greatly admired, as was a splendid collection of roses from Waban Conservatories. Daybreak carnation from Ellis Bros., created a sensation and seedling carnation Governor Russell from M. L. Cummings was well received.

There were many visitors from out of town, all parts of New England being well represented.

Cincinnati.

The Cincinnati show, like the fine crisp beautiful weather prevailing, has opened most auspiciously. In fact the show in all that goes to make a great autumnal festival is here in magnificent form, rivaling in several features its more pretentious ally, the Madison Square show in New York last week. In fact, the large specimen plants were in finer flower and the foliage was excellent throughout. The leading exhibitors in specimen chrysanthemums were Richard Witterstaetter, John Fries, Fred Waltz, Theodore Bock and Frank Huntsman. I append a list of the most conspicuous varieties in the several exhibits, so that growers may know what are the most suitable varieties for pots as grown by the Cincinnati florists. Louis Boehmer, magnificent both in color and leafage; W. H. Lincoln, always good; Col. W. B. Smith; Minnie Wanamaker; R. Bottomley; E. G. Hill; Ada Spaulding; Domination; T. C. Price; L. Canning; M. Boyer; Mrs. Wm. Bowen; Mrs. E. W. Clark; Vivand-Morel; Ivory; John Thorpe; Cyrus McCormick. There were many others, but these were the most conspicuous.

The Horticultural Hall was arranged nicely. Chas. Jones furnished a magnificent group of palms and other decorative plants, a fine Asophila australis crowning the group.

A magnificent collection of novelties in coleus adorned the front of the stage in Music Hall. Varieties new in color and peculiar in the risk markings, from J. M. McCullough's Sons.

Orchids in abundance (considering the season) were furnished by the noted McFadden greenhouses. These were nicely arranged with fine ferns, aloccasias and anthuriums, making a most attractive exhibit.

Cyclamens were finely done by Julius Peterson and Mrs. McFadden. These were centers of interest throughout the show. Indeed, cyclamens have come to stay and florists may make arrangements accordingly.

From the prominence given cannas in the premium list, there were four grand collections entered as follows: Hill & Co., Richmond, Ind., Fred Waltz, Mrs. McFadden and B. P. Critchell. The winning collection was conspicuous on

account of the great number of new and choice varieties shown. Prominent among the varieties in the winning lot were Mme. Crozy, Star of '91, Capitaine Suzzoni, H. A. Dreer, Chas. Lefebvre, J. D. Cabos, Comte Oliver, Senholz, Sr., Sarah A. Hill, Alphonse de Herroche, Admiral Jarvis, and others of Hill & Co.'s own seedlings. McFadden's collection consisted almost exclusively of the well known Mme. Crozy. Waltz' collection was the worse for the handling but of fine growth.

Begonias were done finely by the Huntsman Floral Co., they staging a magnificent collection in all the newest and best sorts, both in rex, shrubby and the ornamental classes.

Ferns were shown by the Huntsman Floral Co., B. P. Critchell and Riverside Floral Co. All three of these were fine collections, extremely well grown. Among the noted ferns were *Adiantum amabilis*, *Adiantum concinnum*, *Pteris argyrea* and other choice varieties exceedingly well done. Huntsman Floral Co.'s were much the larger specimens. Mr. Critchell's collection was smaller plants, but in greater variety.

There were three magnificent groups of palms, which added grace and beauty to the show. These were grouped in semi-circular form against the side of the building. Peterson, Sunderbruch Bros. and Critchell furnishing the three groups. Among Peterson's collection were a magnificent *Phoenix rupicola* with a spread of 12 feet, *Areca lutescens*, *Caryota urens* and *Areca Verschaffeltii*. A. Sunderbruch's Sons had *Chamaerops filamentosa*, *Phoenix reclinata*, *Scaevola elegans* and *Kentia Belmoreana*.

CHRYSANTHEMUMS.

The 8-inch pot stuff deserves more than passing notice on account of the extreme beauty of the plants; both the collection of Richard Witterstaetter and Henry Schwartz were magnificently done. In these two collections were many of the best grown plants in the show, furnishing an object lesson to market growers.

The \$25 premium offered for best new varieties of the year was won by Richard Witterstaetter. The collection comprised Ed. Hatch, C. B. Whitnall, Harry May, G. W. Childs, Col. W. B. Smith, Harry Balsey, T. H. Spaulding, E. Hiltzorth; these were the most prominent.

SEEDLINGS.

These were the center of largest interest to the florists, and the high character of the new varieties together with the great number shown justified the interest taken. The following awards were made: Nathan Smith & Co. for the best variety in the show, to Nivens, a superb white flower, reflexed, whorled, incurved center; without comparison, a truly grand and valuable sort.

The \$50 premium for second best variety was awarded to Henry Reiman for a fine self pink, pure in color, named Irma and of excellent contour. In the class for best white seedling, F. Waltz was first with White Queen. A variety of singular beauty and purity, deserving the award given without question. Fred Waltz was first with his clear golden yellow Harry Sunderbruch, a variety of exceptional merit.

E. G. Hill & Co. first premium for bronze variety Robert McInnes, a great, large, full, double Wheeler, fine in color and a noted addition to this class.

E. G. Hill & Co., 1st for best crimson, Mrs. J. W. Crouch, a magnificent purple crimson.

A. T. Ewing a strap petalled pink with

deeper shading. This won first for E. G. Hill & Co. in pink class.

Certificates by the Cincinnati Society were awarded to Peter Henderson & Co. for Golden Wedding; to Hill & Co. for Mayme Ryar, a Japanese anemone; Judge Hoitt, a magnificent pink anemone, and Robert McInnes; to Fred Dorner for Mrs. C. H. Duhamel, an improved Molly Bawn; Autumn Queen, a perfect ball in shape, buff yellow in color; Sarah Hill, a magnificent golden yellow.

To Fred Waltz for a light globular pink named Theo. Boek; Vesuvius, tawny buff shaded yellow; White Queen, the prize winner in whites. Certificates were awarded to Maud Dean and Tuxedo. Other magnificent seedlings were shown, but as they did not receive notice by the judges, Messrs. Elijah A. Wood and John Thorpe, they are passed over.

There were five groups of single stem plants of 100 each, four of each kind. These were done in grand form, all five groups, were exceptionally fine and formed one of the most attractive features of the show.

The groups of 50 single stem plants were not so good, with the exception of the premier lot; this was that grand winner Ivory. W. K. Harris may well feel proud of this offspring of his, for it maintained its reputation. Minnie Wanamaker in a group of 50 is one of the best also for this purpose.

The entries for the best 150 blooms in 50 kinds was by odds the most hotly contested of all the entries in the cut class. The following firms winning in the order named: Mrs. McFadden 1st; Hill & Co. 2d; Fred Dorner 3rd. J. J. Crisman, Clarksville, Tenn., W. N. Rudd, Chicago, C. L. Mitchell, Fred Waltz and Huntsman Floral Co. also entered. The differences of quality among the whole eight entries were very slight. The flowers in these entries were as fine as any ever staged in America, and reflected great credit on all the gentlemen interested. Conspicuous for their size and finish were the following varieties selected from the different entries in this section. Elmer D. Smith, Lizzie Cartledge, Etiole de Lyon, Kioto, Harry Balsey, Mattie Bruce, Ed. Hatch, Vivian-Morel, Frank Thomson, Widener, Roslyn, R. Bottomley, Mrs. A. J. Drexel, Mrs. O. Loughton, Ivory, Mermaid, Margaret Jeffords, Harry May, August Swanson, W. H. Lincoln, Mrs. E. W. Clark, Golden Gate, E. G. Hill, Mrs. Lay, W. B. Whitnall, Maria Simpson, Minnie Wanamaker, Sugar Loaf, Col. W. B. Smith, Incandescent, Mrs. Irving Clark and Mrs. L. C. Madeira.

AWARDS.

Bush plants on single stem, 12 plants, 12 varieties, 1st \$100, R. Witterstaetter; 2nd \$60, John Fries; 3d \$40, Fred S. Waltz.

5 plants, white, 5 varieties, 1st \$30, John Fries; 2d \$20, R. Witterstaetter; 3d \$10, Theo. Boek.

Best 5 plants, pink, 5 varieties, 1st \$30, R. Witterstaetter; 2d \$20, Theo. Boek.

5 plants, yellow, 5 varieties, 1st \$30, R. Witterstaetter; 2d \$20, Theo. Boek.

5 plants, other colors, 5 varieties, 1st \$30, R. Witterstaetter; 2d \$20, Theo. Boek.

Best specimen white, 1st \$10, John Fries; 2d \$5, Theo. Boek; 3d \$3, Fred S. Waltz.

Best specimen pink, 1st \$10, R. Witterstaetter; 2d \$5, Fred Waltz; 3d \$3, John Fries.

Best specimen yellow, 1st \$10, John Fries; 2d \$5, R. Witterstaetter; 3d \$3, Fred Waltz.

Best specimen other color, 1st \$10, R. Witterstaetter; 2d \$5, John Fries; 3d \$3, Fred S. Waltz.

Bush plants on single stems, not less than 6 or more than 12 blooms to a plant.

18 plants, 18 varieties, 1st \$50, Theo. Boek; 2d \$25, R. Witterstaetter; 3d \$15, Fred S. Waltz.

Best single specimen, any color, 1st \$5, Theo. Boek; 2d \$3, R. Witterstaetter.

SINGLE STEM AND SINGLE FLOWER.

Best 100 plants, not more than 4 of a kind, 1st \$50, Huntsman Floral Co.; 2d \$30, Fred S. Waltz; 3d \$20, E. G. Hill & Co.

Best 50 plants, 1 variety, 1st \$30, Huntsman Floral Co.; 2d \$20, Riverview Nursery; 3d \$10, E. G. Hill & Co.

MARKET PLANTS.

Best 18 plants, not more than 3 of a kind, 1st \$18, R. Witterstaetter; 2d \$12, John Fries; 3d \$6, Henry Swartz.

Best specimen standard, 1st \$10, E. G. Hill & Co.; 2d \$6, Fred S. Waltz; 3d \$4, Huntsman Floral Co.

Special novelty premium, E. G. Hill & Co. \$25, R. Witterstaetter.

Home for the Friendless prize. Best group of cannas, 1st \$150, E. G. Hill & Co.; 2d \$50, Mrs. E. A. McFadden.

Orchids, 1st \$100, Mrs. E. A. McFadden.

Palms, 1st \$75, A. Sunderbruch & Sons; 2d \$50, J. A. Peterson.

Ferns, 1st \$75, Huntsman Floral Co.; 2d \$50, Critchell & Co.

The Baldwin prize. Cyclamens, 1st \$25, Mrs. E. A. McFadden; 2d \$15, J. A. Peterson.

Begonias, 1st \$25, Huntsman Floral Co.; 2d \$15, Riverview Nurseries; 3d \$10, E. G. Hill & Co.

CUT CHRYSANTHEMUMS.

Seedling chrysanthemums, 1st gold medal and \$100, Nathan Smith & Son; 2d silver medal and \$50, H. W. Riemann.

The Storer prize, for best white, cup valued at \$25, E. S. Waltz.

The Schmidlapp prize, cup valued at \$25, for best pink, E. G. Hill & Co.

The Hinkle prize for best crimson variety, cup valued at \$25, E. G. Hill & Co.

The Longworth prize for best yellow variety, cup valued at \$25, F. S. Waltz.

The Florists' prize for best bronze, cup valued at \$25, E. G. Hill & Co.

Best 50 varieties, 3 blooms, 1st \$150, Mrs. E. A. McFadden; 2d \$100, E. G. Hill & Co.; 3d \$50, Fred Dorner.

Best 15 varieties, 3 blooms, 1st \$25, G. R. Gause & Co.; 2d \$20, R. Witterstaetter; 3d \$15, Mrs. E. A. McFadden.

Best vase pink, 12 blooms, 1st \$6, Chas. L. Mitchell; 2d \$4, E. G. Hill & Co.

Vase white, 12 blooms, 1st \$6, R. Witterstaetter; 2d \$4, J. A. Peterson.

Vase yellow, 12 blooms, 1st \$6, E. G. Hill & Co.; 2d \$4, Mrs. E. A. McFadden.

Vase other colors, 1st \$6, Mt. Greenwood Cemetery Co.; 2d \$4, C. L. Mitchell.

Chrysanthemums for Women's Wear.

Flowers are worn or carried this autumn very extensively, and during the chrysanthemum season no other flower seems to be desired. For street wear the style is very simple; a few choice long-stemmed flowers are carelessly pinned on, so that each flower shows for itself. If they are tied at all they are simply caught together with an invisible wire, all the foliage being left on. Mr. A. Wadley (of Siebrecht & Wadley, New York) says that it is the style now to carry a loose bunch in the hand, either the flowers alone or with a little maidenhair fern. For evening wear the flowers are usually

tied with some light green, either maiden-hair or asparagus, but in all cases crowding is avoided. Where they are used in bunches they are made into the flat bouquet called the opera bunch. In these bunches plenty of maiden-hair is generally used between the flowers. As Mr. Wadley says, the chrysanthemum makes either the most charming or the most hideous of bunches, and it is all in the arrangement, first in the selection of colors that blend nicely together and next in arranging them so that each flower shows for itself. Nothing is more hideous than a bunch or basket of chrysanthemums all on a level, as if they had either been driven in with a hammer or had a smoothing plane run over them. There is not another flower grown that offers a better opportunity for tasteful arrangement than the chrysanthemum, for it offers almost every variation of color and size.

It is pleasant for the florist to learn that every well-dressed woman this autumn must either wear a few flowers or carry some in her hand. The long sprays or garlands used so much in New York last year seem to have lost their popularity for the time being, and they are not likely to be used much this winter. Present indications point to simple arrangements imitating nature as far as possible.



Seasonable Hints.

The demand for flowers to-day is more exacting than it was several years ago. Consumers are being educated in this matter and the result is that the stock we send to market must conform to the popular standard, which, it must be remarked, is moving forward year by year to a marked degree. It is our place as cultivators to endeavor to supply this demand and to enter to this taste. The florist who keeps in the van will be the most successful and reap the largest reward. It is very important then to present our goods in the best shape. It is not alone necessary to cut all possible with long stems, but we must adopt a standard and rigidly keep to it. Small and imperfect flowers should be thrown to one side and shipped as culls if sold at all. It is better to throw them away entirely than have them go with the best. Just in accordance with the standard thus set will our success in the disposal of our product be measured.

They should also present a neat appearance. The trade demands that the long stems should be put in bunches of 25 or 50. Twenty-five make a neat and pretty appearance if properly bunched. To this end select those of nearly equal length, place the largest in the middle and the shorter stems on outside, keeping the ends of the stems even, tying them firmly about one inch from their ends. Bunch each kind by itself and we like the idea of placing a tag on each bundle having printed thereon the name of the variety and of the grower. Pack carefully in the shipping box, pressing rather firmly that they may not move en route.

Right here we would like to pay our respects to the express man. It fre-

quently happens that flowers arrive at their destination in very bad condition because they are not handled with the proper care. We may take every pains to give our goods a neat appearance and pack with the greatest care only to have them damaged by careless handling on the road. The quantity of flowers now shipped by express should be a sufficient inducement for the companies to give proper instructions to their employees on the handling of flowers. If they were properly approached and the matter intelligently explained to them they would no doubt remedy the trouble for their own good and to our advantage.

Avondale, Pa. W. R. SHELMIER.

Carnation Crosses.

III.

The use of the single flower for crossing is to some extent a going back to the primitive type for a fresh source of vigor. Such a course is highly recommended under favorable conditions by many careful breeders of domestic animals, but in the case of a carnation we do not get the primitive stock, merely a flower with same number of petals as the original, and perhaps many of the inherited defects of its more recent progenitors, in which case there can be little advantage in the use of such a cross. At the New York meeting of the American Carnation Society both Messrs. Lothrop Wight and Edward Swayne spoke of having made use of single flowers in crossing, the former having good success in using them both as pistillate and pollen parents. The inference from natural laws, however, would be against the use of single flowers as pod producers.

In making use of the single flower as a pollen parent, however, it would seem probable that other things being equal such a cross would have less liability to produce calyx-bursting progeny and more liable to produce a strain of seedlings productive of flowers.

The proportion of single to double flowers is usually quite large from the seedlings of a given pod. In the crosses already referred to as having bloomed in 1891 the percentage of single flowers was 35. In one case 75 per cent from one pod were single flowers.

Certain varieties are found to produce a much larger proportion of promising seedlings than others and the same variety will vary greatly in this respect when used as a pistillate parent.

The lack of accurate data is to be regretted, and it is the earnest wish of the writer that those experimenting in this line will from time to time give the results of their work that all may be benefitted.

C. J. PENNOCK.

Chester County Carnation Society.

The regular monthly meeting was held at the Society's room, Kennett Square, Pa., November 4.

President Ladley called attention to the fact of this being the first anniversary meeting and to the benefits of frequently getting together to discuss topics of mutual interest. The subject of early heating for production of flowers developed considerable diversity of opinion, the general practice being to withhold heat until the plants were established. Messrs. Renard and Pennock had already given a little heat on a few cold nights during past two weeks.

Edward Swayne said he could to-day see through his houses the various plantings of a variety, those last planted,

about October 30, being more vigorous, and gradually decreasing in vigor to those first planted about September 5. Isaac Larkin reported having a few years ago let some plants of Chester Pride remain out of doors with buds until the ground had been frozen several times and snow had been on them twice. These were lifted and put in a house with heat. They did as well or better than any plants he ever grew. As to lifting, Mr. Larkin kept a ball of earth to roots and watered the bed before planting. Mr. Renard formerly practiced lifting with ball of earth, but for past three years he had taken up without earth and preferred the latter plan. He had lifted a lot of Buttercup one year and for several days had been out of water. These plants did not wilt and produced a fine crop of flowers.

The general opinion was decidedly in favor of cutting flowers before the sun struck them. If flowers are to be shipped it is an advantage to have them stand in water for some time previous. One or two, however, had practiced cutting in the afternoon and shipping at once without putting in water, and in such cases no loss was reported.

Edward Swayne reported on the New York chrysanthemum show, the most notable exhibit being a white seedling by John Bros. "Wm. Scott" showed up in fine shape, its habit of growth being very desirable, single flowers on long stems. Sago, crimson, by John McGowan, was very good, on extra long stiff stems.

A number of cut flowers were shown at the meeting, notably E. Swayne's seedling "Sweet Brier" and Thomas Cartledge; also Angelus, Pearl, Puritan and Crimson Coronet by C. J. Pennock. The latter was of fine form, pure color, well fringed, on erect, strong stem. Mr. Passmore showed a sport of Portia similar to American Flag, and another of J. J. Harrison type.

C.

Back Bay Fens, Boston.

Our illustration of the driveway over Richardson's Bridge is one of the photographs belonging to the set recently published in the AMERICAN FLORIST in connection with Mr. W. H. Manning's admirable description of Boston's new Back Bay Park, but which was crowded out at the time for want of space.

Shrubs for a General Retail Trade.

In a suburban residence district where people take pride in their home surroundings we find a decided increase in the sale of ornamental shrubs. The florist with a general trade cannot now confine himself to bedding stuff alone, though the taste for other plants has been very slow in growing.

Shrubs carried for this trade must be of undoubted hardiness. This desideratum bars out a good many things, but as people always hold the florist responsible if they do not succeed, it is wise to be sure on this point. The seller should plant the shrubs for his customer, but we never advise his giving an absolute guarantee; experience shows that it does not pay, simply because one can never be sure how the shrubs will be treated afterwards. A reliable man will sell good stuff, and plant it properly, and this should be sufficient guarantee to the purchaser.

It is not necessary, in a general retail trade, to keep a very large list. Among the earliest of the flowering shrubs, Forsythia viridissima is a favorite, selling



A CHARMING DRIVEWAY, BOSTON.

well; *F. suspensa* is also good, but does not make quite such a show of flowers. These are both reliably hardy. Next come the *deutzias*; *D. gracilis* is especially in demand, doing well in an exposed situation, and always producing a mass of bloom. It seems to flower equally well in shaded places or in the open. *Deutzia crenata* fl. pl. is another standard sort, though more subject to the attacks of the rose bug than *D. gracilis*. It is a much taller-growing thing than *gracilis*, and soon makes a very large shrub. It will pay to handle a few *spiræas*; *S. prunifolia* is a good free-flowering sort, but a good many of them are not very sightly when flowering is past, especially when little care is taken to keep them in shape.

Among the newer shrubs, few excel *Exochorda grandiflora*, the flowers being large and handsome, and very freely produced. We noticed that this sold very well among amateurs, small plants, which could be sold for 75 cents or \$1, giving enough bloom the first season they were planted to fully satisfy the purchaser. It may be noted here that a great many amateur buyers want a shrub that they can buy for \$1 to \$1.50, not caring to go above \$2.50 at the utmost, and though this bars out some desirable stuff it shows the retailer what he must indulge in. Where this class of trade predominates it does not pay to carry high-priced stock, and novelties are largely barred out. It is worth while, however, if the seller has any room for display, to plant high class shrubs himself; a big bed of hardy *rhododendrons* in bloom will do more to persuade people into buying

them than any amount of verbal argument.

The double English hawthorn, *Crataegus oxyacantha* fl. pl. is often called for by eastern buyers; it is all right in point of hardiness, but is apt to become the victim of a troublesome borer in this country. It is one of the most beautiful sights imaginable when in bloom, either the pink or the white form, and the fragrance is delicious. It grows into a good sized tree in the course of time.

Lilac and mock orange (*philadelphus*) are two of the inevitable shrubs expected in every collection, but in many localities they are not nearly so much called for now as they were formerly. Another old shrub, is *Weigelia rosea* (syn. *Diervilla rosea*); this still holds its popularity, being very handsome when covered with its rose-colored flowers, and always graceful in shape. It is very readily propagated in spring or fall, either from cuttings or suckers, which are very freely produced.

There is generally a good demand for *Pyrus japonica* as a hedge plant, the old red flowered variety being the favorite; it is undoubtedly hardy and an abundant bloomer. The Tartarian honeysuckle, and in fact most of the shrubby honeysuckles are also sought for hedges.

In naming salable flowering shrubs the double-flowered almond and double-flowered peach should not be omitted; they are both very handsome and salable, standing cold winters well.

Hydrangea paniculata grandiflora is very much in demand in the east, and is eminently satisfactory, blooming profusely when early flowering shrubs are

over. It is not yet so well known among western buyers, but will undoubtedly become very popular when better known.

The ornamental Japanese maples, many of which seem like shrubs rather than trees, are now very popular, though not by any means common; they take well with fastidious buyers. Many retailers find it to their advantage to buy direct from Japan, instead of buying from nurserymen here. Some of the varieties may prove tender in the west, but they stand eastern winters well.

Another shrub to be recommended for its ornamental foliage is *Prunus pissardii*, the crimson-leaved plum; its foliage retains the color all through the season, and it is thoroughly hardy.

We should hardly recommend a florist to work up stock himself in the line of shrubs. If he has a large business it will not pay; he will find it better to select the stuff he needs at a large nursery. It should not be bought with the idea of growing on for several years, nor is it advisable to carry a very large stock. Much of the stuff may be bought in the autumn, with the intention of selling the ensuing spring, and then simply heeled in over winter.

The trade in shrubs will naturally bring some demand for trees, but though the retailers will try to oblige regular customers it will not pay to go largely into tree-dealing. Ordinary shade trees give little profit except where they are handled in large quantities, and when they have to be bought at a nursery, freight paid on them, and labor for handling and planting there is a very small margin left for profit. Some choice orna-

mental trees may be disposed of, especially if some good examples are planted about the florist's place. We generally find the copper or purple beech greatly admired, and there is usually a demand for weeping varieties of different trees. Choice conifers are suitable for this trade, but many people have no idea of evergreens beyond arbor vitae, and further than this they must be educated before they understand the beauty of this class of trees. Many of the handsome retinosporas, which succeed well in the east, would hardly stand severe western winters. E. L. T.

Philadelphia.

The November meeting of the Florists' Club held November 1 was quite well attended considering that a number of the brethren were in New York acting as judges at the show there. The following gentlemen were elected to membership: Joseph Renard, Unionville; F. R. Sykes, W. W. Harper and W. H. Cook, of Philadelphia. The auditing committee made their report, in which they stated that everything was O. K., and complimented the secretary and treasurer on their carefully kept books.

Several questions were passed up by members of the club and assigned by the president to be answered. "Does it pay to raise pansies for cut flowers?" was answered by Joseph Heacock, who stated that if care was taken in selecting the varieties they would pay as well as most anything else.

The best way of forcing lilacs, was answered by Isaac Kennedy. He said his plan was to put the stock to be forced in boxes and plunge the boxes out of doors in the spring. In the winter when wanted they are placed at once in a temperature of 80°, and never allowed to get below it; they are syringed at least four times a day, if the temperature is allowed to fall the flowers will not develop. He stated he had been quite successful with them under this treatment.

The best six chrysanthemums for pots for market purposes, were said by Mr. Mencke, who was given the question, to be L. Canning, Gloriosum, Tokio, Lincoln, Ivory and M. Boyer or Cullingfordii. "Dolongiflorum flower as abundantly as Harrisii?" was answered by several, Mr. Ball stating that his experience with both was that they produced about alike, but the flowers of the longiflorum had the most substance and while the Harrisii might have a little advantage in the early part of the season the other was much the best for a late Easter.

Just as the meeting adjourned John Westcott and Charles Longinette arrived from New York and expressed themselves as highly pleased with the show in that city. Robert Craig was unfortunate in not getting Edna Craig, the new pink carnation, staged at the Madison Garden show in time for competition. Fifty fine blooms were sent by special messenger on an early express, but an accident on the road held the train for about three hours and the judges had awarded the prize before the flowers were delivered. At the end of the second day most of the vases of carnations on exhibition were very sleepy, but the Edna Craig looked as fresh as if just staged.

Business the past week has been better, there being a number of weddings, at some of which the decorations were quite elaborate. Of course chrysanthemums were the flower most generally used, but roses seem to be preferred for the bou-

quets. Huge bunches of Mermets and La France for the bridesmaids, and Brides, Brides and valley, or all valley, for the bride. Boutonnieres are made of one large white chrysanthemum or four or five large white carnations.

On Sunday morning about 9 a. m. 50 men from the stores, under the direction of John Westcott, chairman of committee on decorations, met in Horticultural Hall and proceeded to change the appearance of the interior. By 2 o'clock everything was in readiness for the plants and cut flowers. The decorations consist of wild smilax, laurel wreathing and autumn boughs. Bamboo rods and Japanese lanterns were also largely used. The interior of the foyer is draped with white cheese cloth and wild smilax, which will make a pretty background for the cut flower exhibits.

A number of plants are already in the hall, some of Mr. Verner's are really wonderful even for him, and other grand specimens are expected on Monday.

The ten pin boys keep up the fun and last Thursday night the Schuylkills were again defeated by 43 pins. The score was Delawares 2609, Schuylkills 2566. Brown was top man with 525. K.

Indianapolis.

Trade has livened up greatly; just before the chrysanthemums began coming in flowers of all kinds were scarce; still outdoor flowers were to be seen everywhere until a few days ago, when one night's frost settled all. So far it has been the driest season known for a long time.

Chrysanthemums are selling well this season at fair prices; some very fine flowers are coming on, one-stemmed blooms selling best, all colors. Carnations are also showing up nicely and bought at sight. Another dry goods store has added a floral counter, of course underselling the regular florists. Would not a reasonable wholesale price pay the furnishers to those establishments better from regular florists?

Prospects for the State Society's sixth annual chrysanthemum show are progressing splendidly; flowers measuring between six and nine inches will be out of sight compared with what will be seen at the Indianapolis show. Several local florists will pay our Cincinnati friends a visit November 9. No doubt a big show will be seen there.

Last week was a great but sad occasion for this city. The burial of Mrs. Harrison was arranged in perfect shape; everything passed off as intended, nothing elaborate, but perfect; while the local florists had very little to do, the Washington florists furnished a great many flowers. All designs showed handling plainly and looked withered. Some designs must have been beautiful. Others showed bad taste, especially a wreath with black ostrich plumes, and also those of immortelle work. The church decoration was suitable to the occasion, black and white draperies, entwined with smilax and asparagus. Palm leaves, roses and carnations were needed. Columns on each side of organ were draped and lined with smilax diagonally, an immortelle wreath on each showing up splendidly; a magnolia wreath with white roses on center of organ was also effective. Magnolia wreaths with white roses hung over each door leading from the church. Palms and white chrysanthemums framed the pulpit and all around the organ in a mass of foliage and flowers. A vase of 12 perfect white blooms of chrysanthemums

on four foot stems stood in front of the pulpit and at the side of the casket. All the designs were set among the plants and on platforms made for that purpose; wreaths, flat baskets and bouquets were hung on the walls, in the windows and on the side chandeliers, making the whole a sight not very often seen, especially when considered from whom those emblems were given as a token of respect and love. On arrival of the train all flowers were taken charge of by Mr. Ed. Bertermann of Bertermann Bros., Mr. Pfister, the White House florist, and assistants; three wagons were necessary. Part only could be used in church; after the services all were placed in four wagons and taken at once to the cemetery, where the grave and surroundings had been prepared with evergreen and white chrysanthemums. Many thousands of people visited the church and cemetery; every loose sprig of green and flower was eagerly grasped by watchful people and will probably be treasured in the family bible and albums. The Society of Indiana Florists contributed a flat basket of several hundred Daybreak carnations finished with cunatun ferns. Mrs. Harrison always liked flowers and will always be remembered by the Indiana florists. Why a chrysanthemum seedling securing her token of a silver cup was not named after her is a mystery, and there is a sorry feeling that it did not stay in this state, where it surely would have been better appreciated. W. B.

Boston.

The annual meeting of the Gardener's and Florists' Club was held on Tuesday evening, Nov. 1. The principal business was the election of officers which proceeded in a good-humored way, and resulted in the almost unanimous election of the following gentlemen as officers for 1893.

President, Jackson Dawson; Vice-President, S. J. Coleman; Secretary, L. H. Foster; Treasurer, Edward Hatch; Executive Committee, Jas. Farquhar, Samuel Neil, Wm. Edgar, E. J. Welch.

A meeting of the Bowling Club followed, and the following gentlemen were elected: President, Wm. Edgar; Treasurer, E. J. Welch; Secretary, Wm. Love; Captain, Samuel Neil.

Cut flower trade is not very brisk at present. A lively snow storm and freeze on Nov. 5 put an end to all outdoor attractions, and prices are expected to brace up a little.

The grower's cut flower exchange opened at 65 Bromfield St., on Nov. 1.

W. H. Elliott, the "Asparagus King," is receiving congratulations on the birth of another son.

N. F. McCarthy & Co. had two successful plant auction sales recently.

E. A. Wood has gone to Cincinnati and Indianapolis as a judge at the chrysanthemum shows in those cities.

Another Christening.

It all happened on Nov. 5, at the United States Hotel, Boston. Agreeable to an invitation received through the mail a few days previous, the boys were gathered around the festive board in an inner room. At the head sat Mr. Ed. Hatch, on his right was Mr. E. A. Wood, and on his left beamed the countenance of Judge C. W. Hoitt. Flanking these gentlemen on the right and left were about twenty-five of the "boys," some of them white headed, and most of them with a suspi-



AN ARTISTICALLY TREATED PANEL.

cious bald spot of more or less extent on the top of their heads.

Directly in front was a vase of the wonderful chrysanthemum Ed. Hatch, in whose honor and for the purpose of christening which, the party had assembled, and the table was further decorated with chrysanthemums and foliage plants, while over in a corner were ensconced a harp and two violins.

Judge Hoitt acted as toast master. Elijah Wood was introduced as the father of the chrysanthemum in question, and responded with his song, "Jingle the Bells," and afterwards with "Thread on the tail of me Coat" and other poetical effusions. Mr. Sibley also furnished classical songs at various periods, and speeches or stories were insisted upon from every individual present. Letters of regret for unavoidable absence from several worthies were read by the chairman.

Merriment reigned supreme throughout the evening, and at the close it was unanimously agreed that Mr. Hatch was "a gay old blossom" himself, and a brilliant future was predicted for the flower and its namesake.

New York.

The cut flower trade, which gave indications of a revival a week ago, has dropped back again to its former condition of "innocuous desuetude," and is

not expected to revive again until election excitement is past. Chrysanthemums are not bringing the prices that growers expect for them, and there is much discontent manifested. But there is only one efficient remedy that can be suggested, that is, to raise fewer of them. If, as the growers claim, the flowers are sold now at an actual loss to them, it will not be long before the remedy is applied. Roses are only in fair supply, and are not badly overstocked. Orchids sell well. Violets and mignonette also seem to be in no danger. Valley is plenty, with prices lower, and the same is true of carnations.

There is great excitement about Newtown, Williamsburg and Middle Village over the arrest of a number of persons accused of stealing floral designs from graves in the neighboring cemeteries. Two of the thieves were caught at their contemptible work in the Lutheran cemetery. They claim to have been employed by certain local florists to do it, their object being to use the flowers over again. This is absurd. If florists were interested in it at all it probably was for the wire frames, but it seems incredible that any self-respecting florist should have anything to do with such work. Further investigation is being made.

The store of August Rolker & Sons had a narrow escape from destruction by fire on the night of November 1. The

fire was fortunately discovered in time by an employe, and damage was but trifling.

Mr. J. H. Laing, of London, arrived per steamer Umbria on October 29.

Mr. Thos. W. Weathered also got home from Europe on November 2.

Chicago.

The first Roman hyacinths of the season was brought in November 5 by Enders & Gresser, of Havelock, Ill. They were extremely good in quality, but are still scarce. Flowers of all kinds have been scarce for a week past, eight days of rainy weather having seriously affected the market. Flowers were not only scarce, but very poor, roses and everything else suffering from lack of sun. The demand was good, rather in excess of the supply.

Chrysanthemums are suffering a slight decline, but this is not strange, as many of the flowers coming in are very poor, scrub blooms grown in haphazard natural sprays. Growers should realize that these poor flowers are not only a losing speculation themselves, but they ruin the market for really good blooms. When the commission houses are choked with mediocre chrysanthemums the flower loses prestige and the good blooms sell poorly in consequence. It is a fact, however, that very high prices for chrysanthemums cannot be obtained here; it rarely pays a Chicago grower to raise single-stem blooms for market. Some of the best flowers seen at the flower stores here come from W. N. Radd of Mt. Greenwood.

There is a decided shortness of violets and they are very much in demand; though many of them are of poor quality they are eagerly snapped up and bring a high price. Carnations are very much in demand and are better in quality; some very fine Portia, Daybreak and other varieties quoted as fancies have been in, selling rapidly at a good price. Roses have suffered so much from the dull weather that their quality is greatly impaired; Bride, Perle, La France and Albany seem about the best, but many of the Beauties coming in are very poor.

Toronto.

As these notes will not appear in print until after the chrysanthemum shows are over anything I might say concerning them would sound a little stale perhaps. Suffice it to say then that everything in connection with the show in this city is going along swimmingly so far and the entries, especially for cut flowers, are coming in well. Great Scott of Buffalo is coming down like the wolf on the fold with some blooms as big as a cowboy's hat, I hear. Hamilton—the ambitious city—will also endeavor to carry off some of the cups and medals offered for competition.

Mr. Honston of the Central Prison, arrived home from New York to-day, where he visited the great Madison Square Chrysanthemum Show. He was loud in his praises of the decorations, the cut blooms and plants.

I dropped in to the greenhouses at Exhibition Park the other day. The orchid house was very interesting, some good pieces being in flower. A fine specimen of Anthurium Ferrierense also, with half a dozen immense spathes, was worth going two miles to see.

Some good roses are coming in now, but prices have not reached the usual winter prices yet. Still trade keeps on improving, but the improvement is very gradual.

Next week of course will be chrysanthemum week, pure and simple, and the "Queen of Autumn" flowers will reign supreme. E.

Rose Notes From England.

Now, at the close of the season, it will perhaps be interesting, possibly instructive, to our American cousins as well as to ourselves to review the prominent blooms, particularly of new varieties as they appeared at the more important rose shows visited during the year.

The Metropolitan show of the National Rose Society of England always with us opens the rose tournament, and was as usual held at the Crystal Palace, London, on the first Saturday of July, this year falling on the 2nd of the month, which, as the season turned out, was much too early for rose growers of the northern provinces, and yet we believe this was the best show ever held by the society. The size, quality, finish and color of the blooms in all the winning stands distinctly showing progress.

Among the older varieties of H. P. roses exhibited during the season conspicuously fine blooms of the following were shown: Baroness Rothschild, La France, A. Colomb, Chas. Lefebvre, Gabriel Luizet, Merveille de Lyon, A. K. Williams, Marie Bauman, General Jacquemont, etc., while in teas and noisettes Souv. d'Elise Vardon, Catherine Mermet, Innocente Pirola, Marie Van Houtte, Hon. E. Gifford, Caroline Kuster, Mme. Lombard, Comtesse de Nadailade, Marechal Niel, Francisca Kruger, Anna Ollivier and Niphetos were splendidly exhibited.

The chief characteristics as to growth, habit, color, etc. of all the varieties mentioned are so well known to every rose lover and grower that I need not make any comment, but pass on at once to my notes on the more striking blooms of the newer varieties and submit to your readers comments and information gleaned not only from personal observation and experience, but also from comparison of notes with several experienced growers and exhibitors.

In almost every box splendid blooms of Mrs. John Laing (H. P.) could be seen. In this well known though comparatively new variety we have from an exhibitor's point of view an excellent rose, free flowering, strong growing and hardy, excelled by none, and equaled by few, either old or new kinds, for percentage of perfect blooms. She certainly is a lasting testimonial and monument to the memory of the late Henry Bennett, her raiser, by whom she was introduced in 1887.

Her Majesty (H. P.), another of the late Mr. Bennett's seedlings and a year older than Mrs. John Laing, I have seen very fine this year. I know what disappointments she caused to many Americans as well as Britishers on her first appearance among us, when she was branded as shy, haughty, stiff, and devilishly so, but now that she has altered her ways and has for the past two or three years consented to display her charms, and freely too in a less exalted style, we really ought to renew acquaintance. I know of at least one American amateur who had from five to six very fine flowers on a two year old cut back budded plant on stems not more than three feet long this season, so that I think on your side as well as ours she may yet find favor in rosarians' eyes. Her worst fault now is her proneness to mildew, and I regret to say that in this particular she has not improved.

Earl of Dufferin (H. P.) has been truly

magnificent this season; the great size, form, finish and coloring together with a vigorous constitution and freedom of flowering commend it to every grower as a first class rose. In America as well as here he is already well known and appreciated and bids fair to supplant most other dark varieties. This was the first of the Irish series of pedigree seedlings introduced by Alex. Dickson & Sons, New-towards, in 1887.

Rodocanachi (H. P.), a very fine and worthy addition to our pink roses, was introduced by E. Verdier in 1880. Unfortunately for her fair name and fame she was distributed with several more new French varieties, which like many others turned out worthless and after a season's trial were consigned to the rubbish heap, Rodocanachi sharing the same fate in many cases, simply because of the company into which she was thrust. Some of our more careful testers, however, recognized merit in her and to their care we are now indebted for a very free and useful variety, especially so for your country, where she has been tried and found ready and willing. All through the very hot summer you have this year experienced she continued to flower and grow freely, evidently revelling in heat, and so great is the substance of the petal that it does not wilt quickly or lose color. For the past three years this rose has been with us winning favor and this year I think she has fully established herself in our hearts, many very fine flowers having been seen, the color of which is unique and most attractive, especially under gas light.

Gustave l'iganeau (H. P.). An immense carmine lake colored flower with good form and finish. The color is the weak point in this otherwise grand rose; there being a great tendency to turn purplish in tint renders it undesirable for American rosarians. There is at present here a diversity of opinion as to the growth of the plant; some contend it is a weak while others consider it a moderate grower. Introduced in 1889 by Pernet-Ducher.

Jeannie Dickson (H. P.), a rosy pink flower very deep in petal, full of substance, smooth and highly pointed in bud, has been well and frequently shown all through the season, which speaks remarkably well for her as a free bloomer, as the stock held both by amateurs and growers must of necessity be as yet very limited seeing that she was only introduced by Alex. Dickson & Sons in 1890. On cut back plants I have seen it very fine this year and commend it to the notice of all rose growers. She forces well and is a vigorous grower, the greatest drawback in her is want of perfume.

The Bride (T.). A perfect gem. For this excellent rose we are indebted to your fellow countryman, John N. May, from whom we received her in 1885. The Bride is a sport from Catherine Mermet and it is our experience that sports rarely equal, never exceed the original type, here, however, we have the exception which proves the rule, for the Bride quite equals, I am almost tempted to say exceeds, her parent, or rather the variety responsible for her production, for like poor Topsy the Bride had no parents, she just grew. In every exhibition stand of teas you are sure to find a bloom of the Bride. With us as with you it is a most reliable variety.

Caroline Testout (H. T.), introduced only last year by Pernet-Ducher, has made a very good impression here. Several very fine flowers have been shown this season and the growers to whom I

have spoken about it all speak favorably, and I judge from the flattering remarks and favorable criticisms contained in an article published in the AMERICAN FLORIST some weeks since the same opinion is held by those of your growers who have tried it. With us the flowers are large, full and good form, having plenty of substance and sweetly perfumed. The plants are vigorous in growth. She is certainly worth a trial.

Margaret Dickson (H. P.). This rose caused a great sensation last year, indeed she quite revolutionized the white H. P. section. Undoubtedly it is a great advance on Merveille de Lyon, who seems to feel her dethronement not a little, as this year we have had many very fine blooms, but the road she has to travel is a hard one. Margaret Dickson again repeated her successes of 1891 when she won the National Rose Society's gold medal as the best seedling. Also 1st for the best 12 white roses, and 1st as the best 12 any new rose, by winning at Wolverhampton this year (the finest rose show of the year) 1st prize for the best 12 roses any variety, beating such grand sorts as Laing, La France, Merveille de Lyon, Ernest Metz, Her Majesty, etc. The flower is white with pale flesh center, large and of good substance, in growth very vigorous and free flowering on cut backs. Introduced by Alex. Dickson & Sons in 1891.

Salamander (H. P.) has only appeared a few times this year, consequently I can not offer an opinion as to its merits or demerits. What blooms I saw were small but bright in color and certainly not at all equal to the blooms put up by the raisers, Wm. Paul & Son, at Crystal Palace in 1890, when it won the National Rose Society's gold medal.

Duke of Fife (H. P.). A very rich crimson scarlet colored sport from Etienne Levet, with which rose it is identical except in color. Was introduced this year by Cocker & Sons, Aberdeen, in whose stand at Liverpool last year I saw some very pleasing flowers, but being only sent out this year I have as yet no personal experience of it.

Marchioness of Dufferin (H. P.) was very well shown this year in many places, particularly at the Royal Hort. Society of Ireland's Show, Dublin, where I saw a stand of 12 blooms equal in size to Her Majesty. The color is a very pleasing rosy pink, growth vigorous, free flowering. Introduced by Alex. Dickson & Sons in 1891.

Danmark I have seen written favorably of in one of our horticultural papers, but any of the growers to whom I spoke of it agreed with me that it was too like and no improvement on La France. Introduced by Zeiner, Lassen & Dithmer in 1890.

Kaiserin Augusta Victoria (H. T.), of great merit, splendid grower and the flower, which is white shaded with yellow, is large, full and well finished, introduced by Lambert & Riter in 1891. It is really worth trial.

Corinna, a very promising new tea not yet in commerce; the color is novel and striking, flesh shaded with rose, good size and form, has been well shown at Crystal Palace and Earl's Court, London. This variety I hear will be distributed during the spring of 1893 by Wm. Paul & Son.

Mrs. W. J. Grant (H. T.), described by some of our leading gardening papers as an improved Jeannie Dickson, made her debut this year for the first time in public and won for her raisers, Alex. Dickson & Sons, the National Rose Society's gold medal as the best new seedling rose of the

year. Of this variety we are likely to learn more from you than we can now tell, seeing that one of your growers has tempted the raisers to sell him the whole stock of this, the only daughter of La France. Certainly what we saw of her made us desirous of seeing more. The form was grand, color true rose and perfume delicious.

Mrs. Paul (Bourbon), a large open blush white rose with peach shading, introduced last year by Paul & Son, Cheshunt, has been very frequently and well shown this year, and is I think well worthy the distinction of the N. R. Society's gold medal conferred on it at the Crystal Palace 1890. The plant is of very vigorous growth and free flowering.

Marchioness of Londonderry (H. P.) is a rose about to be introduced by Alex. Dickson & Son and promises to be a splendid addition. The only time it has appeared in public was at Ulverston where it was awarded 1st prize as the best rose in the show and 1st prize as the best seedling rose. The bloom exhibited here was of enormous size, yet without coarseness, the color ivory white, petal shell shaped, highly perfumed and evidently of vigorous growth. Srv.

The Victoria Regia.

This mammoth representative of the nymphaeacea is a native of the northern part of South America, and although seen by Hanke in 1801 and described by Poppig in 1832, and subsequently by Schomburgk and others, is still to many comparatively unknown. Only in the past two or three years has it been generally known thru, over a large portion of the United States, a glass covered tank is not a necessary adjunct to its successful culture.

In Chicago the victoria has flowered freely in a cold pond, but the leaves did not measure more than three feet in diameter; therein no doubt that in the warmer southern states the plant can be grown to a satisfactory state of perfection in sheltered pools or ponds without being, artificially heated. In the northern part of the United States, while it is not necessary to grow the plant indoors, yet to obtain the luxuriance of foliage possessed by the plant in its natural habitat, the water of the tank or pond must be heated; a temperature of from 85° to 90°, or better still, from 90° to 95°, must be maintained.

Under proper conditions the culture of the victoria is very simple. The seed may be sown early in January in loamy soil, covered with gravel, and placed in water at a temperature of from 100° to 105°; before sowing, however, the hilum or scar, a small protuberance on the end of the seed, should be picked off with the point of a sharp knife; this insures a quicker germination. In from ten to fifteen days the seed will have thrown up the first leaves, which will be linear in shape, becoming hastate, next sagittate, and finally peltate, and six feet in diameter with an upturned rim of six inches in height.

As soon as the plants can be handled, they should be potted separately into small pots and the temperature of the water lowered to 85° or 90°; shifting as may be necessary until about the 1st of May, when they will be strong plants in 6-inch pots, with leaves 8 or 10 inches in diameter and ready to transfer to the outdoor tank, it being quite possible and preferable in this district, when the tank is heated, to plant out about the beginning of May, the leaves being for several

days below the water on planting out; cold or even frosty nights cannot effect them and as root action commences at once much is gained thereby in early flowering and the maturing of the foliage. Under such conditions flowers were produced in this district as early as June 20 of this year, and at the present writing, October 20, a beautiful flower, the finest of the season, graces the same plant (the turned up rim is, however, nearly gone from each leaf, this making four months of continuous bloom).

Only one species of this noble plant has thus far been discovered; a variation from the type has, however, appeared named Randii; the writer is sorry that he is unable to say with whom it originated. In every respect Randii is an improvement, being stronger in habit, the rims of the leaves being higher; the color of the leaves is also of a richer bronzy green, while the inner petals and stamens on the second opening of the flowers are a deeper shade of crimson than in the original type.

The victoria, being a night bloomer may be grown in connection with exotic nymphs and surrounded with such night blooming beauties as Devonensis and the star like dentata, and viewed in the pale moonlight is a sight well worth seeing.

A tank or pond to grow a fair sized victoria should not be less than 25 feet in diameter and cement lined, which lining can be masked by rock work covering and may be sunk flush with the ground. Practical experience suggests a depth of water of about 20 inches; in the bottom of the tank a depression should be sunk about 10 or 12 feet square and 12 inches deep for a soil bed; the soil should be of equal parts of turfy loam and old cow manure and covered with gravel to prevent washing out.

The enemies of the victoria are few, being restricted to a small leaf miner, which a few doses of tobacco water will serve to destroy if taken in time; when the leaves are small they are easily immersed in the decoction.

Gold fish will serve to keep down conifers in the water by eating off the growth as it germinates on the face of the rocks, or stems and leaves of the plants; Sun fish, too, are useful in that they will strike slugs and borers injurious to aquatic plant life. They prevent, however, the breeding of gold fish in the same tank. Chicago. J. A. PETTIGREW.

Two Sorts of Boys.

First City Boy—I hope we won't take a country house again. I hate it.

Second City Boy—What! Hate the country?

"No, the country is good enough, but there is always a garden; and ma and pa go 'bout crazy over it, plantin' things in the spring, and then when the hot weather comes they get tired and stop botherin' 'bout it, and then the weeds come up, and then they always want me to weed the garden, cause it's good, healthy outdoor exercise for boys of my age. I hate it."

"Well, you're a chump. We have a garden every summer, too, but I don't do any weeding, not much I don't."

"Have you a gardener?"

"No."

"Then how do you get out of it?"

"Well, you see, I never can learn the difference between weeds and other things, and by the time I've dug up a lot of flowers an' vegetables my mother comes runnin' out and says I ain't big enough to weed the garden. Then I go fishin'."—*Daily Paper Item.*

ATLANTA, GA.—The Westview Floral Co. has opened a store at 5 Peachtree St.

WEST GROVE, PA.—The Dingee & Conrad Co. has just completed four new greenhouses each 100 feet long.

SAN JOSE, CAL.—The annual convention of the fruit growers of California will be held in this city November 15, 16 and 17.

SEATTLE, WASH.—The State Board of Horticulture has decided to remove its headquarters from Tacoma to this city.

JANESVILLE, Wis.—Walter Helms has purchased the stock and good will of the florist business lately conducted by Mrs. Z. M. Church.

VISALIA, CAL.—The Tulare County Fruit Pest Exterminating Company has been incorporated with headquarters in this place. Capital stock \$10,000.

VENTURA, CAL.—One of the prettiest things in Ventura is a hedge of heliotrope in the gardens of Mrs. T. B. Shepherd. It is 200 feet long and 6 feet high, a mass of bloom. The plants were set out five years ago; they require trimming three or four times a year.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As rose grower; can give references if required. Address FRANK GOOD, 255 Dibert Ave., Springfield, O.

SITUATION WANTED—By a young soldier German gardener, at a private for wholesale price. Address SCHULZE, 106 Greenwich St., New York.

SITUATION WANTED—By a good, reliable gardener; private place, vicinity of Chicago. Married, no children. Best of references. Address D. C. care American Florist, Chicago.

SITUATION WANTED—By a young gardener, 21 years old; 8 years' experience; Danish; 5 years in this country. Best of references given. Address JOHN SEVERIN, 150 Broad St., Providence, R. I.

SITUATION WANTED—Or partnership, either in store or greenhouse; by a thoroughly practical business florist with large acquaintance and trade. Vicinity of Chicago preferred. Address WILLIAMS, care Chicago Floral Co., 18 Grand Boulevard, Chicago.

SITUATION WANTED—By a competent seedsmen; can speak English and English, and a good sales; 35 years of age; understands all kinds of bulbs and all kinds of horticultural and agricultural implements. Best references. Address SEEDSMAN, care American Florist, Chicago.

WANTED—AGENTS in the principal towns of the U. S. by an important European seed firm. Write full particulars to W. 448, "SEEDS," care Rud. Mosse, Berlin, (S. W.) Germany.

WANTED—A soldier man, for cut flower store, one that can keep a set of books. State experience, references, and wages wanted. Address SEATTLE FLORAL EXCHANGE, 109 Columbia St., Seattle, Wash.

FOR SALE—1500 feet of 4-inch pipe, expansion tanks, valves and fittings, at half price. Address MRS. G. WALDRATER, Saginaw, West. Mich.

FOR SALE—Florist's business at a bargain; 5 houses well stocked; best location in city of 15,000. Address WM. MILLER, Chillicothe, Ohio.

FOR SALE OR RENT—At a bargain, an old established florist business near St. Paul. Must be disposed of through sickness and ill health. Address FLORIST, care American Florist, Chicago.

FOR SALE—\$300 cash will buy small greenhouse, about 1400 feet glass, including a good stock. Hitches hot water apparatus, pots, etc. All in good order. Only greenhouse within 30 miles of State Capitol. Must sell at once. Address C. C. BAUM, Dover, Delaware.

FOR SALE—Florist's establishment, situated 5 miles from City Hall, containing one acre of land with dwelling house of 10 rooms, barn and sheds, 8,000 square feet of glass, all new heated by steam and hot water, well stocked with palms, carnations and violets, giving a good home and wholesale trade. Ten minutes to steam-cars, and electric cars pass the door. Plenty of room for building more houses. Apply to ALBERT A. BONEY, Globe Building, Boston, Mass.

WANTED.

2,000 CHINESE NASTURTIUM VINES, 1 year, strong. State number can furnish and price. Address I. L. MAY & CO., Florists and Seedsmen, St. Paul, Minn.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and Dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Washington, Nov. 15-17—Washington Florists' Club. G. W. Oliver, Sec'y, 1515 5th St. N.
Oshkosh, Wis., Nov. 15-17—Oshkosh Florists' Club. Mrs. G. M. Steie, Sec'y.
Springfield, Mass., Nov. 15-17—Hampden County Hort. Society. W. F. Le, Sec'y, 377 Main St.
Baltimore, Nov. 15-18—Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Pittsfield, Mass., Nov. 15-18—Berkshire County Gardeners' and Florists' Club. A. P. Meredith, Sec'y, Pittsfield.
Indianapolis, Nov. 15-19—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.
Bay City, Mich., Nov. 15-19—Bay County Hort. Society. T. J. Cooper, Sec'y.

A SPECIAL FEATURE of our chrysanthemum number, that appears next week, will be the opinions of five of the most expert chrysanthemum growers in the country, on nearly every chrysanthemum now in commerce in America, the opinion of each one being given without knowing what had been said by any of the others. These opinions are brief but pointed, and where unanimous in condemnation or commendation must surely settle any doubts in the minds of our readers. And the number of sorts that are condemned as worthless, or superseded by better varieties of similar type, is not small by any means. Again some of the oldest are unanimously held to be still the best of the type. And a number of the older sorts while declared behind the times for cut flowers are said to be exceedingly useful as pot plants. Among other points covered is that of season of blooming, the varieties being classed as early, mid-season and late.

DOUBLE IPOMEEA.—Mr. A. W. Smith, Americus, Ga., sends us a photograph of blooms of a double ipomoea that originated with him and which he has named "Rosulae." The flowers are certainly double, or rather, semi-double, but is doubtless desirable in this class of flowers?

At a little dinner recently given by Mr. John Thorpe an appropriate delicacy was chrysanthemum soup, in which choice Japanese flowers, finely chopped, formed the flavoring. Mr. Thorpe says it was good, too, and his guests seem to agree with him.

WE HAVE received from J. C. Gibson, Woodbury, N. J., blooms of the improved daisy Snow Crest. It is all that is claimed for it, having large snow white flowers borne on stout stalks five to six inches long.

A CORRESPONDENT calls our attention to the great advantage of coal dust over sand in rooting cuttings. It never needs washing, as it never turns green. It should be run through a No. 6 screen.



CYCLAMEN FLOWERS will sell if they are good; CYCLAMEN plants also. The **giganteum** strain is the only one worth growing if you grow for sale, and there are strains and strains of the **giganteum** also. It is not how cheap, but how good! Remember that! Gardiner's strain of **giganteum** comes high; but it's worth the difference. Sow at once for next winter's flowering. \$2.00 per 100 seeds; \$8.00 for 500 seeds; \$15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Street, PHILADELPHIA, PA.

Our trade list of choice Flower Seeds free.

ASPARAGUS PLUMOSUS NANUS

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

CUT ROSES.

SUCH AS—
PERLES, NICHETTES, BEAUTIES,
LA FRANCE, MERMEIS, METEOR,
WHITE LA FRANCE.

can be supplied to florists at Wholesale Prices.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY

Cut Flowers.

ROSES, CARNATIONS AND
CHRYSANTHEMUMS.

We can fill orders for above on short notice: Adams, American, United States and Wells Fargo Express Co.'s. Give us a trial order.

GEO. A. KUHLE, Pekin, Ill.

HARDY CUT FERNS

MOSS (SPHAGNUM AND
GREEN SHEET.

A 1 TYPE LEAVES.
BOUQUET GREEN AND FESTOONING of
all kinds in any amount on hand.

HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

Palm Leaves & Plants for Decorating

Green Spanish Moss, \$25 per 100. Saw Palmetto leaves 85 per 1000; \$50 per 10,000. Saw Palmetto crowns or tops (1 to 7 ft.), and Young Yellow Pine tops, (leaves 10 to 12 inches), 3 ft. \$20 per 1000; 5 ft. \$40 per 1000. (Trifolium utriculata 15 to 12 inches), \$5 to \$40 per 1000; \$30 to \$100 per 10,000. Salal Palmetto leaves, crowns, plants and young leaves for Palm Sunday. Write for prices on other decorative goods to

VICTOR SCHMELZ, Sylvan Lake, Orange Co., Fla.
Everything well packed and delivered on cars without extra charge.

BROOKLYN, N. Y.—James Weir, Jr., held a chrysanthemum show at his greenhouses all last week, which was visited by many. It is said that some remarkable blue flowers were shown among the chrysanthemums.

ST. JOSEPH, MO.—Owing to a long spell of dark weather roses are coming rather off color, especially Beauty and Wootton. Trade very good considering the nearness to election day.

PLATTSMOUTH, NEB.—W. J. Hesser has just completed a palm house 24x35 and a cactus house 15x35. Another palm house is being built, 11x135.

FT. WAYNE, IND.—The different florists of this city held a chrysanthemum show this week at V. M. C. A. Hall.

BELOIT, WIS.—The Misses Dudley, florists, will hold a chrysanthemum show here November 15 to 19.

WHOLESALE FLORISTS

La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

Mention American Florist

EDWARD C. HORAN,

34 W. 29th Street, NEW YORK.

Wholesale Florist

Careful Shipping to all parts of the country.
Price list on application.

Wisconsin Flower Exchange,
WHOLESALE

Cut Flowers & Florists' Supplies

131 Mason St., MILWAUKEE, WIS.

CHOICE STOCK, CAREFULLY PACKED,
AND ON TIME. Send for Price List.

Cut Chrysanthemums.

SPECIMEN BLOOMS
AT \$2 AND \$3 PER DOZ.

J. C. VAUGHAN, 60x 688 CHICAGO.

Mention American Florist.

J. L. DILLON, Wholesale Florist

BLOOMSBURG, PA.

WRITE FOR CIRCULARS.
Mention American Florist.

CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will be 30 cents per string. Quality first-class. Prompt attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
Cut Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786, CHICAGO, ILL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express
promptly filled.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 FINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
1402 PINE ST. ST. LOUIS, MO.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 8.	
Roses, Perles, Gentlers, Niphetos.....	1.000 2.00
" Mermets, Brides, Hosts.....	2.000 3.00
" Waitville, Chish.....	2.000 3.00
" La France, Albany.....	2.000 3.00
" Beauty.....	8.000 25.00
Carnations.....	7.50 1.00
Valley.....	4.00
Romans.....	4.00
Narcissus.....	5.00 1.25
Violets.....	5.00 25.00
Chrysanthemums.....	5.00 25.00
Mignonette.....	2.00 1.00
Adiantums.....	1.00
Smilax.....	12.00 15.00
Asparagus.....	50.00
BOSTON, Nov. 8.	
Roses, Niphetos, Gentler.....	2.000 3.00
" Brides, Mermets, Woodton.....	3.000 4.00
" La France, Meteor.....	4.000 5.00
" Perle, Sunset.....	2.00 1.00
" Beauty.....	15.00 25.00
Carnations.....	1.00 1.50
Valley.....	4.00
Romans.....	4.00
Narcissus.....	4.00
Violets.....	5.00 25.00
Chrysanthemums.....	1.00 25.00
Mignonette.....	5.00
Asparagus.....	50.00
Smilax.....	12.50
Adiantum.....	1.00
PHILADELPHIA, Nov. 8.	
Roses, Beauties.....	15.00 20.00
" Albany, Mermets, Brides.....	3.00 4.00
" Woodton.....	3.00
" Pierre Guillot.....	4.00
" Meteor.....	1.00 3.00
" Perle, Niphetos, Gentler.....	2.00 3.00
Valley.....	5.00
Carnations.....	1.00 1.50
Violets.....	3.50 50
Chrysanthemums.....	4.00 20.00
Bonvardia.....	1.00
Adiantums.....	1.00
Smilax.....	15.00 25.00
Asparagus.....	50.00 75.00
CHICAGO, Nov. 8.	
Roses, Perles, Niphetos, Gentler.....	3.00 4.00
" Mermets, La France, Brides, Albany.....	3.00 5.00
" Beauty.....	10.00 15.00
Carnations, short.....	7.50 1.00
" long.....	1.25 1.50
" fancy.....	2.00 2.50
Chrysanthemums.....	3.00 25.00
Violets.....	7.50 1.50
Adiantum.....	1.00
Smilax.....	15.00 25.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies

WHOLESALE,
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.

Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES.
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS

51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 4th St

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.
Mention American Florist.

THEO. ROEHR'S,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH : Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.
The finest Roses, Violets and Carnations.
Branch, at Cut Flower Exchange, 408 E. 34th St.

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1903. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wehersfield, Conn.

BULB DEALERS in New York report their fall's trade as the most satisfactory in their history. This applies to wholesale and retail trade both.

ST. LOUIS, MO.—The Plant Seed Co. has been incorporated here with a capital of \$50,000. Incorporators, Alfred and P. S. Plant and Geo. Urquhart.

MR. CHAS. SHARMAN, of Carter & Co., London, England, died very suddenly last week. Mr. Sharmen had many friends in this country as well as in England and is deeply regretted.

REGARDING prices on onion seed, the anxiety on the part of most catalogue men seems to be to get the rates high enough this season rather than cheap enough as has been the case in former years.

CHAS. BURBANK, for ten years a clerk in the implement department of J. Breck & Sons, Boston, was arrested recently on the charge of having stolen at various times \$250 worth of stock. Bail in \$1000 was furnished.

NEXT WEEK comes our special chrysanthemum number. It will have a handsome colored cover, and in addition to the usual budget of miscellaneous matter will contain a large amount of valuable new information about the "Queen of Autumn."

THE FALL of 1893 promises to be one which will try the souls of the contracting seed growers. The seedsmen who buy of them have an excellent opportunity to make up their minds who are reliable and trustworthy and where to place their orders for next season.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

SEEDS!
PLANTS! BULBS!

Everything pertaining to the Farm and Garden of the best and choicest quality. PICTURES RIGHT.

Catalogue on application.

WEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

LILIAM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

FLORISTS' STOCK IN SEASON

	Per 100 Per 1000
Hymniths—Named.....	85.00 8
" Mixed, single, separate colors.....	25.00
" Roman, yellow.....	35.00
" Roman, white, 11 to 12cm.....	12.50
Narcissus—Cynosure.....	20.00
" Von Sion, English growth.....	15.00
" Von Sion, Dutch growth.....	17.00
" Double Roman.....	10.00
" Chinese.....	7.50
Lilium Auratum, 7 to 9 inch.....	7.50
" Auratum, 8 to 10 inch.....	9.50
" Auratum, 10 to 12 inch.....	12.50
" Auratum, 6 to 8 inch.....	7.50
" Auratum, 8 to 9 inch.....	10.50
" Album.....	25.00
Tulips, single, as follows: Cottage Maid, Chrysolora, Canary Bell, Golden Kroon, Jack Van Delft, Pottelack, white and scarlet, Rembrandt, Rosa Muiri, Van Vondel, Yellow Prince.	
Tulips, double, as follows: Gloria Solis, La Camero, La Cascade, Pearly Gold, Pimpinkron, Rex Rubrum, Duke of York. All at bottom prices.	
HOLLY—Vaughan's "Get There" Holly, full cases, All stock, known to be the best and most reliable, per cent, \$6.00; 3 cases \$16.00; 5 cases \$26.00. There is big money in this stock. Order now and be sure of it.	

ROUQUET GREEN—Per 100 in "Cherry, \$5.00; in New York, 8". Write for prices on larger lots.

Per doz. Per 100
Azaleas, strong plants..... \$1.75 \$50.00
Large plants..... 4.00 15.00
Show plants, \$1 each and up.

Spiraea japonica, strong clumps..... 1.00 5.00
" Compacta multiflora..... 1.50 9.00
Aurea reticulata..... 1.50 9.00
For description see our "Book for Florists."

Lily of the Valley, Hamburg Pips, best 3 year old, per 100, \$1.25; 1000, \$9.50; per 1000 in 5000 lots, \$8.00; in 10,000 lots, \$8.00.

Berlin Pips, best 3 year old, per 100, \$1.50; 1000, \$9.50; per 1000 in 5000 lots, \$8.00; in 10,000 lots, \$8.00.

Arancaria Ezevia, fine plants, from 82 cent and upwards.

RAY TREES OF LAUREL..... per pair
Standards, heads 18 inches in diameter..... \$15.00
" 24 inches in "..... 15.00
" 28 inches in "..... 21.00
" 30 inches in "..... 25.00
Pyramids, 5 ft. high, 24 inches in diameter..... 1.50
7 ft. high 33 inches in "..... 20.00
Standards, 7 ft. in diameter, price on application.

NEW YORK. J. C. VAUGHAN, CHICAGO.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,



The largest and finest stock of Palms, Stone and Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts.

LILIAM HARRISII and BULBS for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Mention American Florist

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854. Govansstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

Special Offer.

ROMAN HYACINTHS..... Per 100
" White..... \$1.40
" Blue..... 1.60
" Pink..... 1.90

DUTCH HYACINTHS

Single mixed, extra fine..... 2.40
Double "..... 2.50

TULIPS

Single mixed, finest quality..... .95
Double "..... .90

CROCUS

All colors, mixed, extra fine..... 1.85

FRESH MUSHROOM SPAWN

Per 100 lbs, \$7.50.

Have you had our Bulb List?

H. C. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDERS' P. O., Baltimore Co., Md.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.



Send for Catalogue of
JAPAN BULES, SEEDS,
AND SHRUBS.

ARACARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878 SAN FRANCISCO, CAL.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and

Requisites. There are

best at the lowest prices.

PRICE LIST issued quarterly, mailed free to the

trade only.

HENRY A. DREER,

Philadelphia

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. Price, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

ROSES.

In Leading Forcing Varieties.

CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet.....Per 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE.....per 1000 \$60; 7.00

MRS. FISHER.....7.00

VIOLETS.

Neapolitan.....per 1000 \$70; 8.00

The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,

in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

10,000 JACK ROSES

1 and 2 years old, on their own roots, well branched.

2 to 2½ feet high.....Per 100 \$ 8.00

2½ to 3½ feet high.....10.00

3½ to 4½ feet, extra large for plant-

ing out.....12.00

Will send sample of 10 on receipt of \$1.00.

Jordan Floral Co.,

706 Olive Street, ST. LOUIS, MO.

KAISERIN AUGUSTA VICTORIA

THE COMING WHITE ROSE.

From 4-inch pots.....\$ 5.00 per doz.

" 3-inch pots.....35.00 per 100

" 2½-in. pots.....25.00 per 100

J. COOK,

318 Charles Street, BALTIMORE, MD.

THE

NEW ROSE

BRIDESMAID.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

ROSES.

TEAS.....\$30.00 per 1000

HYBRIDS.....40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

ROSE

ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,

Wyndmoor, Chestnut Hill, Phila., Pa.

Mention the American Florist when writing to advertisers on this page.

ROOTED CUTTINGS.

CARNATIONS.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention.

CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

10,000 CARNATIONS.

Garfield, Hinze's.....\$5.00, \$7.00 and \$ 8.00
Roses: Albany, La France, Mermel and So-
frano, from 2-inch pots.....6.40
Albany, La France and Woolton, from 2½-in pots
Bride, Mermel, Sofrano and Bon Silence, 2½-in
pots.....2.50
Asparagus Tenissimus, 3½-inch pots.....8.00
Dracena Todolisa, 3½-in. pots...\$1.00 per doz. 8.00
Fern Pteris Scutellata, 2½-in. pots, \$1.00 a doz. 8.00
" " 2½-in. pots, 60c a doz. 4.00
Grevillea Robusta, 15 to 18 in. high, \$2.00 a doz. 15.00
Pandanus Utilis, 4-inch pots, strong, \$5.00 per doz.

NATHAN SMITH & SON,

Adrian, Mich.

CARNATIONS,
FIELD GROWN.

GOLDEN * TRIUMPH,

and other varieties. Send for list with prices.
A few hundred second size plants of Golden Triumph
at a reasonable price.

R. T. LOMBARD, Wayland, Mass.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best standard and new kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. FENNOCK,
The Pines, Kennett Square, Chester Co., Pa.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,

TERRE HAUTE, IND.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y.

OUR NEW TRADE

DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

GERANIUMS.

Transplanted cuttings of a very choice assortment, every variety a good one. Price per 100 with labels, \$2.50, without, \$2.00.

SNOW CREST DAISY.

Transplanted plants of this beautiful and popular sort, \$6.00 per 100.

CALL AND SEE ME OR SEND FOR A LIST.

A Great Pair.

EDNA GRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of Aurora at \$15.00 per 100, and Golden Gale at \$8.00.

Some Specialties for 1893 will be

Aurora New Jersey
Thos. Cartledge Nancy Hanks
Pearl Dorner
Golden Triumph Mrs. Hitt
Grace Darling Ben Hur
Puritan Daybreak
Emily Pierson White Wings
Orange Blossom Edwin Lonsdale
Angelus American Flag.

EDW. SWAYNE, Carnationist,

KENNETT SQUARE, PA.

CARNATIONS

Strong, healthy, field grown plants.

PURITAN—The best white. Early, productive and healthy. 1st size, \$15 per 100; \$125 per 1000.
2nd size, \$10.00 per 100; \$80.00 per 1000.

Hybrid Perpetual Roses.

Strong, field grown plants, \$10.00 per 100.

WOOD BROTHERS,

Fishkill, N. Y.

CARNATIONS, Field Grown.

PORITIA, 1st size, fine plants.....\$8.00

2nd size.....6.00

GARFIELD, 1st size, fine plants.....8.00

2nd size.....6.00

Carnations stored in cold frames can be shipped at any time.

LAURENCE HEINL, Terre Haute, Ind.

Double Petunias.

Twenty extra choice named sorts. Twelve of these were illustrated in THE AMERICAN FLORIST No. 225. These are the result of 12 years' careful breeding. Price, \$10.00 per 100.

I also offer a limited quantity of Seed of this Double Strain at 50 cents per 1000 seeds.

G. A. McTAVISH,

VICTORIA, B. C., CANADA.

75,000 IPOMOEA PANDURATA

(Day-Blooming Moonflower.)

ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 100 rate. Per 1000 \$20; 500 at 1000 rate.

Orders booked and shipped when desired.

GERANIUMS, 2½-inch pots, assorted named, \$2.50 per 100.

JAMES FROST, Greenville, Darke Co., O.

Correspondence wanted with parties desiring a regular supply of

FANCY CARNATIONS, DOUBLE AND SINGLE VIOLETS.

THOS. DEWITT,

(Successor to DeWitt Bros.), Bristol, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

St. Louis.

The cut flower trade is brisk, with good prices. Chrysanthemums are coming in fine shape. The demand is for large flowers; if you have small ones you had better not send them.

Young & Sons' chrysanthemum houses are a sight worth going miles to see. A dwarf plant of Mrs. E. D. Adams, the winner of the seedling prize last year, measures 5 feet 9 inches across and has 160 well formed flowers, many of them 5 inches across. This is a fine white variety, and is especially adapted for pot culture. A standard of Charles Pratt, 6 feet 9 inches high, with a head 1 foot across showed forty-eight well formed flowers. Mr. Young is growing sixteen of last year's introductions, and considers seven of them improvements on the old varieties. These will be grown more extensively next year. Among them are Edward Hatch, a good variety for pot culture, and Colonel Wm. B. Smith, Mrs. Maria Simpson, yellow, Lilian Russell, Exquisite, pink, and John F. Miller.

Mr. John Armsby, gardener to Mr. Kauffman, has some of the finest specimens of chrysanthemums we have ever seen. He will exhibit them at the show. He has several importations from England which have not been grown here before. One plant of Viviani-Morel measures 1½ feet across each way, and is a solid mass of large fine pink blooms; another plant of the same variety had blooms 9 inches in diameter.

Roses are coming fine. Mme. Pierre Guillot is being grown here in considerable quantity for the first time this season and is liked. Meteor is rapidly growing into favor. Perles have done remarkably well this season; everyone has good Perles. Mr. Young is growing The Queen; he thinks it superior to Niphetos. Beauties grow to perfection here.

The Botanical Garden has just received a fine specimen of the Giant cactus (*Cercus giganteus*) from the southern plateau, where it sometimes grows to a height of from 50 to 60 feet. The plant is 10 feet high and 12 inches in diameter. J. C. DUFFEY.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.
Mention American Florist.

Association "Flora"

BOSKOPF, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$20.00
R. P. ROSES, for forcing, " 9.00
In the best variety, an Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charla, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blanchies, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraea, etc. We also have Palms, Dracenas, Araucarias and Bay Trees at our nurseries in Holland. Catalogue on application.
P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.
Mention American Florist.

GREEN.

LYCOPODIUM

(BOUQUET GREEN or GROUND PINE)

SPECIAL PRICES BY TON OR CAR-LOAD. Our stock will be better than ever this year.
EVERGREEN WREATHING. Our Wreathing is strong and well made from selected Green. If wanted promptly write or wire us. Medium heavy grade, per 100 yds. \$3.25; per 100 yds. \$24. Special grades made to order. Order now for delivery as wanted.

Our Holly is as good as grows and the best that grows, dark green leaved and well berried. We offer cases of 16 cubic feet each, well packed with first-class stock. \$5.75 per case; five cases, \$5.25 per case. Large lots still cheaper.

CHRISTMAS TREES.

CHRISTMAS DECORATIONS.

Our specialty in these is fine quality to suit the florist trade.

HOLLY.

Conveniently put up in crates of 100 lbs. each, or wound in Wreathing ready for immediate use. \$5.50 per crate of 100 pounds; \$42.50 per 1000 pounds.

TO OBTAIN GREEN in first class condition, free from brown discolored stock, we send each year an agent among the pickers, and by so doing, we secure a good, clean article.

HOLLY.

If you handle Christmas Trees, make your wants known to us; we will quote prices on different sizes and kinds.

W. W. BARNARD & CO.,

6 AND 8 NORTH CLARK STREET, CHICAGO.



Fancy.

Dagger.

4,000,000 Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

We are the People!
Who? **KOFFMAN,**
Where? **WALDEN,**
Orange Co., N. Y.
What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds

At \$1.25 per 100.

And he pays the Express.



WHITE DOVES FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
53 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

Mention American Florist.

MARSCHUETZ & CO.,
FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

Mention American Florist.

LITTLE'S ANTIPEST.

—A—

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the Scale, Woolly Aphis and Insect Pests of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

BOKAY GREEN

IN STOCK.

First quality now at \$5.00 per 100 pounds.

Send for complete price list of **Xmas Trees, and Decorative Goods.**

Largest and most complete line in the Northwest.

JOSEPH HANCOCK, Cedar Falls, Iowa.
Mention American Florist.

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French luxury hybrid Nymphaeas. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

TOBACCO STEMS.

For ROSE REIS, ORCHARDS or TOP DRESSING. 50 cents per hundred weight, including bags.

W. S. FOWELL & CO., Baltimore, Md.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.



Chinese Lily Bowls.

Bulbs planted in these Bowls increase your sales 100 fold.

No. 1. BLUE OWARI. Extra fine porcelain. BLUE AND WHITE. Set of 3 bowls, 7, 8½, & 10 in. \$1.50. No. 2. set of 3 bowls, 5, 6 and 7 inches, 75c. No. 3. JAPAN EMARI. Beautifully decorated in many colors. Set of 3 bowls, 7, 8½, & 10 inches, \$1.00. No. 4. set of 3 bowls, 5, 6 and 7 inches, 50c. 5 per cent off on 12 sets; 10 per cent off on 25 sets. No. 5. single bowls, extra deep, 6 inches, \$5.00 per dozen.

A. BLANC & CO., Philadelphia, Pa.
Headquarters for Cacti and Electrotypes.

August Rolker & Sons



COLUMBIAN JARDINIERS. Bronze, finest, 10 in. diameter, \$2.00; 12 in. diameter, \$2.50 net.

136 & 138 West 24th St., NEW YORK.

CYPRESS GREENHOUSE MATERIAL

CLEAR

CYPRESS

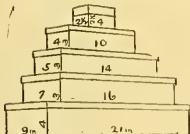
SASH

BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Paper Boxes FOR FLORISTS.



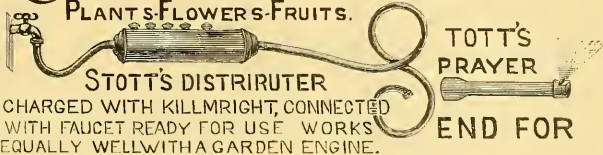
All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street,
CHICAGO.

Cane Stakes.
ANY QUANTITY UP TO
A CAR LOAD.

J. D. CARMODY CO.,
EVANSVILLE, IND.

STOTT'S KILLMRIGHT SYSTEM OF PRAYING AVES KILLS, INSECTS AND MILDEW PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRICTER
CHARGED WITH KILLMRIGHT, CONNECTED
WITH FAUCET READY FOR USE WORKS
EQUALLY WELL WITH A GARDEN ENGINE.

**TOTT'S
PRAYER**

END FOR



STOTT'S SYRINGE
CELL "A" CONTAINS THE KILLMRIGHT

**CIRCULAR AND
TESTIMONIALS.**

**STOTT GARDEN IMPLEMENT
COMPANY
136 LIBERTY ST. NEW YORK.**



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERS

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39, Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,
OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,
MANUFACTURERS OF
DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

FOSTITE

cures MILDEW on ROSES and CARNATION
RUST. Recommended by leading horti-
culturists and florists after careful tests.

JOOSTEN'S MAGAZINE BELLOWS, the best for distributing Plant and Insect Powders.

For Sale by Wholesale Dealers, and

C. H. JOOSTEN, 3 Coenties Slip, New York,
Importer of Plants and Bulbs.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
When writing mention American Florist.

Mention the AMERICAN FLORIST
when writing advertisers on this page.



Mention the American Florist when
writing to advertisers on this page.

Patents Recently Granted.

Flower holder, to S. Lord, N. Y. City. This consists of a water-holding vessel having a vertical water-holding compartment in the center thereof, and having a closed bottom, a series of elongated open-ended tubes arranged equi-distantly from and around the said inner compartment, and having brace wires attached to the inner compartment, the elongated tubes and the rim of the vessel, whereby the said tubes are supported rigidly in the space between the central compartment and the sides of the vessel with their open lower ends near the bottom thereof.

Travelling lawn sprinkler, to H. T. Crepeau, Portland, Me. This consists of a frame or platform mounted on wheels, a stand-pipe carried by said platform, rotary sprinkling arms at the upper end of the stand-pipe, a gear or pinion above secured to the sprinkling arms, a shaft outside of and parallel with the stand-pipe and having a gear at its upper end meshing with the gear on the sprinkler arm, the shaft being connected at its lower end with the wheels of the machine to drive the same.

Foreign Notes.

Lilium sulphureum is a new and beautiful variety, introduced from Burma. It has drooping flowers seven to eight inches long, sulphur yellow, tinged outside with clear red.

Dracena australis rubra is a new garden hybrid, having broad deep green leaves with a red midrib. The young leaves are tinted with bronzy red.

Rhododendron multicolor Neptune is a dwarf hybrid greenhouse variety. It has small leaves, deep bronzy green with a red midrib; the flowers are a good size, intensely red, borne in trusses of six or seven, surrounded by pale yellow leathery bracts at the base.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

OUR . . . HALF-TONE ENGRAVINGS

. . . ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.



SCOLLAY'S
IMPROVED
PUTTY BULB,
For Glazing Sash, Etc.
— ALSO THE —
Patent Plant Sprinkler
For sale by your Sendman,
or sent, postpaid, for \$1.00.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Send Stamp for Catalogue.
Mention American Florist.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.

NORTH CAMBRIDGE, MASS.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whildin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

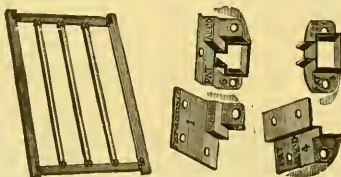
STANDARD FLOWER POTS.

We are MANUFACTURING THE STANDARD POTS, and shall be pleased to mail price lists to all florists who wish to give us a trial.

PRICES MODERATE. MATERIAL BEST.

Address **CHAS. MARKMEYER & SON, New Albany, Indiana.**

REFERENCES: Nanz & Neuner, of Louisville, Ky., can furnish information about quality of our flower pots having bought 15 years of us.



Mention American Florist.

GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists.
Nurserymen, Seedsmen. Write to

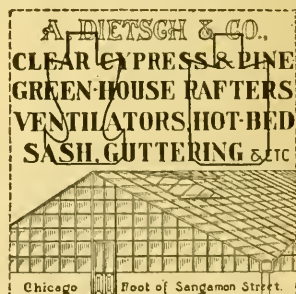
J. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN SAVE MONEY BY
PURCHASING
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.

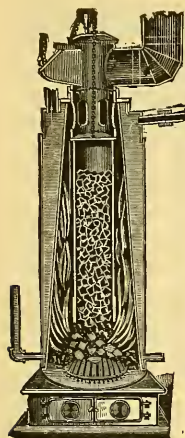
BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

CARNATION CULTURE; L. L. LAMBORN
Third Edition containing all available information
on the subject NOW READY. Price, \$1.50
mail Address H. E. CHITTY, Paterson, N. J.



A. DIETSCH & CO.
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS, HOT-BED
SASH, GUTTERING & ETC.
Chicago Foot of Sangamon Street.

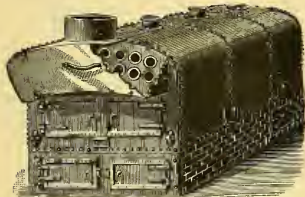
Always mention the AMERICAN FLO-
RIST when writing to advertisers



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,
from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

MARING, HART & CO.,
MANUFACTURERS OF

Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES

Always mention the AMERICAN FLORIST when writing to advertisers.

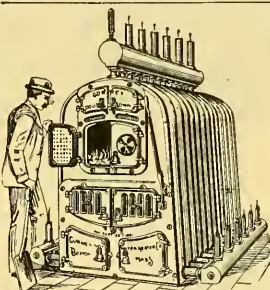
THE LATEST AND BEST
for heating

GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature,

without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling Agencies: { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

GARDENING

Edited by William Falconer, tells amateurs in gardening what they want to know in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by THE GARDENING CO., Monon Building, Chicago.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE BENCH TILE.

For testimonials, circulars, etc., address

UPLAND GREENHOUSE,

W. P. WIGHT,

MADISON, NEW JERSEY

Used by all the leading Growers and Horticultural Builders.

JULIUS TESMER & CO.,

Manufacturers of all kinds of

Ice Boxes

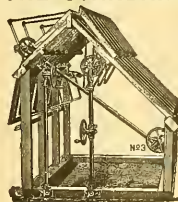
ESPECIALLY FOR FLORISTS.

937 to 941 N. Western Ave., CHICAGO.

Telephone West 670.

D. E. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.

THE STANDARD Ventilating Machines



Received best awards at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

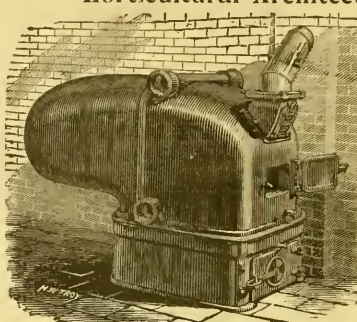
Index to Advertisers.

Abel C. C. & Co.	338	339
Adv. Bates, etc.	334	
Andorra Nurseries	329	
Bailey F. A.	328	
Barnes Joseph	340	
Barnard W. W. & Co.	340	
Baylis Henry W.	323	
Bay State Hdw. Co.	342	
Bayshore Nurseries	340	
Bender H. H. & Co.	320	
Blanc A. & Co.	341	
Bonall Jos. P. & Son	324	
Boston Letter Co.	329	
Bruckner & Co.	330	
Brucce L. E.	326	
Brauer & Richter	325	
Brauer & Kaynor	325	
Burrow J. G.	320	
Carman R. W.	340	
Carmody J. D.	341	
Chitty H. E.	342	
Cook John	327	
De Lamater Iron Works	344	
De Witt J. Thomas	325	
Dietsch A. J.	342	
Hilton J. L.	324	
Dreer H. A.	326	
Richard Thayer	329	
Ellert W. H.	324	
Ellison Wm.	325	
Engles & Gresser	328	
Faust H. G. & Co.	326	
Fellheim Lyman	343	
Fisher B.	328	
Frost James	327	
Gardening Co. The	342	
Gardner J. & Co.	324	
Gibson J. C.	329	
Gonzalez J. C.	328	
Grove & Nicks	329	
Guyner Hunter Co.	343	
Hall Asch.	340	
Hart James	325	
Hart Michael A.	343	
Hartford & Nichols	343	
Heinl H.	321	
Herr Albert M.	327	
Hewes A. H. & Co.	342	
Hill E. G. & Co.	321	
Hippard E.	324	
Hodges & Co.	344	
Hooker H. M. Co.	343	
Hornum Edw. C.	324	
Hulsebosch Bros.	326	
Hunt E. H.	343	
Hunt M. A.	327	
Hunter & Purdy	325	
Irvine John Co.	329	
Jedediah J. E. & Co.	341	
Jennings E. B.	328	
Joosten C. H.	341	
Jordan Floral Co.	329	
Kennell Bros.	325	
Koffman E.	340	
Kusler & Co.	329	
Krick W. C.	329	
Kruschell Bros.	326	
Kuelin C. A.	325	
Kuhl Geo. A.	324	
La Roche & Stahl	324	
Little Swiss Floral Co.	328	
Lockland Lumber Co.	344	

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.



Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention American Florist.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

ATLANTA, GA.—The Westview Floral Co. has opened a fine retail store here under the charge of F. H. Glazier.

IF SEED of forget-me-not is sown in January and the young plants transplanted in hotbeds, will they bloom in May? E.

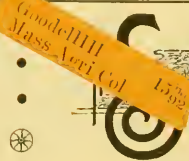
LOUISVILLE, KY.—Nanz & Neuner have purchased the entire stock of the new rose "Princess Louisa of Saxony" from the originator, Rob. Zohnisch, of Saxony. It is a sport from Perle de Lyon and is reported as something extraordinary. It received two silver medals in Germany.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.



SPENCER'S

HOT WATER HEATER

FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER
For Your
**GREEN HOUSE,
ROSE HOUSE,
NURSERY,**
Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
All of this can be accomplished by using the improved
RIDER
OR
ERICSSON PUMPING ENGINE



Catalogue with full particulars sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.

THE AMERICAN FLORIST



America is "the Frow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, NOVEMBER 17, 1892.

No. 233

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August 1st, 1892.

The new officers to be installed January 1, 1893 are: WM. R. SMITH, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS

Chrysanthemums—Judged by experts	347
—View at the New York show (illus.)	349
—Specimen plant of Ivory (illus.)	353
—A row of big fellows at Boston Show (illus) 355	
—Group of sixteen varieties (illus.)	357
—Group of twelve varieties (illus.)	359
—Group of whites (illus.)	360
—Group of yellows and bronzes (illus)	361
—Group of crimson and purple shades (illus) 362	
—California varieties (illus.)	363
—California varieties (illus.)	363
—At this year's exhibitions	365
Chrysanthemum shows—Phila (continued) . . . 366	
—Boston (continued)	366
—Chicago (continued)	366
—Cincinnati (continued)	367
—Buffalo	368
—Providence	368
—Montreal	368
—St. Louis	369
—New York	369
—Correction	369
Philadelphia	369
Carnations—Seasonable hints	372
—Lifting carnations	372
The seed trade	374
Toronto	376
Worcester, Mass.	378
Chicago	382
Minneapolis	382
Louisville	386

THE ILLUSTRATIONS of chrysanthemum flowers in this issue are all from photographs taken the present season, and where in groups an additional value is in the fact that the comparison in size is accurate, though all are of course greatly reduced. In the groups on pages 357 and 359, though the flowers were taken separately, each one was placed at exactly the same distance from the camera, so that the comparative size should be preserved. We anticipate that these illustrations will be much appreciated. Have any of our readers a plant of Ivory that will beat the one illustrated in this number?



Judged by Experts.

In view of the rapidly lengthening list of varieties of the chrysanthemum, it seemed to the FLORIST that the time had arrived for some systematic weeding out of sorts that had been superseded by better varieties of a similar type, and those that had been found wanting in some essential particular, as well as pointing out those that had stood the test of time. To accomplish this we undertook the task of obtaining from six of the best informed chrysanthemum experts in the country their opinions on each of the varieties with which they had had experience. The opinions of each one were obtained without his having any knowledge of what had been written by any one of the others, that the same might be absolutely unbiased, and based entirely on personal experience.

The gentlemen from whom these opinions were secured are Messrs. Jno. Thorpe, Robert Craig, W. K. Harris, E. A. Wood, Ernst Asmus and A. H. Fewkes.

To economize space and make comparison quick and convenient these opinions were compiled together in the alphabetical list which follows. Mr. Thorpe's opinion being preceded by T.—, Mr. Craig's by C.—, Mr. Harris' by H.—, Mr. Wood's by W.—, Mr. Asmus' by A.—, and Mr. Fewkes by F.—.

The gathering together of this data, under the conditions mentioned above, and its compilation afterward, was a stupendous and costly undertaking, but we are sure all chrysanthemum growers will agree with us that the time and money was well expended.

Abd el Kader. Jap. Dark crimson. T.—One of the earliest importations, valuable for its good color, but superseded by Ed. Audiguier, which has a better habit; C.—Good early crimson for pots, but too small for market to-day. Still grown in limited quantity for its bright color.

Acquisition. Anem. Rosy lilac, yellow disc. T.—Excellent anemone for a general collection.

Ada Bates. Inc., white. T.—Good white, but weak grower.

Ada Spaulding. Jap. Light pink. T.—Possesses all the characteristics of a first-class flower; cannot be dispensed with;

C.—One of the finest chrysanthemums in cultivation. Great size and substance. Early.

Addie Decker. Jap. Mandarin yellow T.—Second rate.

Adirondac. Inc. White. T.—Of no great merit; A—Good for exhibition flower.

Admirable. Inc. Rose blush. T.—Superseded by better flowers of the same type.

Admiral Lewis. Jap. Deep wine. T.—Its peculiar wine color makes it valuable in a general collection, but it is not otherwise of merit.

Admiration. Jap. Lilac, white center. T.—Beautiful color, but superseded by Mrs. D. D. L. Farson, which is better; C.—Lacks size, should be dropped.

Adolphe Weick. Pom. Rose and white. T.—Good fits type.

Adonis. Pom. Rose purple. T.—good for pots.

Advance Jap. Deep pink. T.—Desirable in a general collection. C.—Good early pink, larger and better than Admiration; A—Exhibition flower; H.—Good for cut flowers.

Agremets de la Nature. Jap. Yellow shaded red. T.—superseded by Mrs. C. D. Avery.

Agnes Hamilton. Anem. Rose pink. T.—Superseded.

Agnes White. Anem. T.—Superseded. Aigle d'or. Pom. Bright yellow. T.—Good of its type.

Ajax. Pom. Blood red. T.—Good. Alabama. Anem. White. T.—Not possessing merit.

Alaska. Ref. White. T.—Superseded by L. Canning, which is the best reflexed white; C.—Good for pots, fine form, mid-season; A.—Don't care for it.

Albert Lunden. Jap. Carmine red. T.—Little known, but desirable color; W.—Good only in England.

Albert Delaux. Jap. Silvery rose and white. T.—Good, but superseded by Waban.

Alberta Whitmarsh. Jap. Golden yellow. T.—Superseded.

Album Fimbriatum. Jap. White. T.—Peculiar type, but not commercially valuable; H.—Too small.

Album Plenum. Jap. White. T.—Superseded.

Album Striatum. Jap. White, striped rose. T.—Superseded.

Alcazar. Jap. Light yellow. T.—Superseded; A.—Very large, good for exhibitions; W.—For exhibition only.

Alcion. Jap. Carmine rose. T.—Superseded by Mrs. A. Blanc; C.—Does not come up to present standard.

Alexandre Canton. Jap. Golden yellow and brown. T.—Not equal to expectations.

Alexandre Dufour. Jap. Rose purple. T.—One of the earliest, excellent for pot culture.

Alfred Bartigny. Jap. Velvety crimson. T.—Good, but superseded by G. W. Childs.

Alfred Chantrier. Jap. Golden rose and lilac. T.—Of no value.

Alfred Lyne, Inc. Lilac. T.—Very good incurved type.

Alfred Salter, Inc. Pink. T.—Good of its type; C.—Flower too small; H.—Others like it in pots, better for exhibition.

Algonquin. Ref. Yellow. T.—Of no value.

Alice Bird. Ref. Yellow. (Syn. Buttercup.) T.—Disappointing in this country.

Alphonse Karr. Anem. White. T.—Good.

Alphonse Karr. Jap. Lilac, silvery reverse. T.—No value; C.—No good.

Alphonso. Ref. Red, tipped with yellow. T.—No commercial value; C.—Too small.

Amaranthena. Pom. Amaranth. T.—Early pompon, excellent for pot culture; C.—No good, too small.

Amber Gem. Jap. Amber. T.—Superseded by Tuxedo, which is the best of that color.

America. Single. White. T.—No value; C.—Practically out of cultivation.

Ami Hoste, Inc. Yellow brown, striped crimson. T.—Best Chinese of its type for a general collection.

Amphibia. Pompon. Rich chestnut. T.—Of no value; W.—For exhibition only.

Amy Furze. Ref. (Syn. Harry Townsend) Blush rose and lilac. T.—Superseded.

Amy Rosamond. Jap. Pink. T.—Of no value.

Anais. Pom. Rose lilac, pointed gold. T.—Good pompon.

Anatole Cordonnier. Jap. Carmine—amaranth, silvery reverse. T.—Superseded; A.—Don't care for it.

Andrew McNally. A.—Very late.

Angele Amiel. Jap. Rose carmine. T.—Excelled by Bouquet Fait.

Angelina, Inc. (Syn. Pres. Sanderson.) Amber. T.—Good Chinese.

Anna Delaux. Jap. Crimson brown, edged gold. T.—Excelled by Edw. Molyneux and G. F. Mosman.

Anna Dörner. Ref. Carmine, white center. T.—Weak.

Anna J. Sorague. Ref. White, mottled rosy pink. T.—Good for cut flowers.

Anna M. Payne. Jap. Rose carmine and cream. T.—Good for pot culture.

Anna M. Weybrecht. Ref. White. T.—Weak in habit; C.—Promising.

Annie Atkins. Jap. Pink. T.—Superseded.

Annie Lowe. Anem. Primrose yellow. T.—Good anemone.

Annie Salter. Ref. Golden yellow. T.—Fine for pots, early and the best of all hardy chrysanthemums for garden culture. C.—Fine for pots and early cut flowers, but rather small; H.—Others like it as a pot plant.

Annie Thorpe. Jap. Blush white. T.—Out of existence.

Antoinette Martin. Jap. Pink. T.—Of no value.

Antonelli, Inc. Salmon orange. T.—One of the best for exhibition flowers; C.—Not large, but of perfect form, fine, midseason.

Antonius. Anem. Yellow. T.—Fine hardy anemone; F.—Fine anemone.

Aquidneck. Jap. Peach pink. T.—Of no value.

Avalanche. Jap. White. T.—One of the best whites in Europe, but not so good here; C.—Not up to standard.

Arbre de Noel. Pom. Deep orange. T.—Good pompon.

Aristine Anderson. Jap. Pink. T.—Of no value; A.—Good all round; W.—For exhibition, also commercial use; F.—Fine, but weak stem.

Arizona. Jap. Light chrome yellow. T.—Of no value.

Arthur Boardman. Sing. Red. T.—No value.

Arthur Payne. Jap. Reddish brown, reverse yellow. T.—Odd color, good for collections.

Arthur Wood. Jap. Red and gold. T.—Odd, but no great value.

Aspasia. Inc. Rose purple. T.—Out of cultivation.

Astoria. Rose pink. T.—No value.

Atalanta. Mauve. T.—No value; C.—No value.

Attraction. Sing. White, shaded rose. T.—No value.

Aug. Swanson. Jap. Pale yellow. T.—No value; A.—Grand, but difficult to grow; W.—Exhibition only.

Auricle. Jap. Straw yellow. T.—Fine show flower, but rather weak.

Aurore. Jap. Deep red, striped yellow. T.—No value.

Autumn Queen. Ref. Blood red. T.—Displaced by Cullingfordii.

Bacchus. Anem. Rich crimson. T.—Good anemone.

Balmoreau. Jap. Rose purple. T.—Superseded.

Barbara. Inc. Bright amber. T.—Pretty, but too small; F.—Extra good.

Baronald. Syn. with G. F. Mosman.

Baron Beust. Inc. Chestnut red. T.—Good Chinese.

Baronne de Prailly. Jap. Pale rose. T.—Superseded by Waban. C.—No good.

Bartholdi. Jap. Rosy pink. T.—No value.

B. Cousancat. Jap. Reddish purple and yellow. T.—Useful for pot culture.

Beacon. Jap. White. T.—Fine white, of great merit; A.—Grand all round; F.—Fine for exhibition.

Beaute des Jardins. Jap. Light purple amaranth. T.—Out of date.

Beaute de Toulouse. Jap. Rosy white. T.—Out of date.

Beauty. Inc. Blush. T.—Out of date.

Beauty of Castleford. Jap. Deep red and orange. T.—Out of date.

Beauty of Hull. Inc. Light bronze. T.—No value.

Beauty of Kinsessing. Jap. Pale lavender. T.—No value; C.—No good; H.—Others better.

Beauty of Stoke. Inc. Light amber. T.—Superseded.

Bella Patterson. White. T.—No value; C.—No good.

Belle Alliance. Jap. Brick red shaded gold. T.—Superseded.

Belle Hickey (syn. Empress of Japan).

Belle Navarraise. Pom. White and pink, fimbriated. T.—No value.

Belle Paule. Jap. (Syn. Belle Pauline.) White edged rosy purple. T.—No value.

Belle Poitevine. Inc. White, rosy reverse. T.—No value; F.—Finest incurved white.

Belle Valentine. Jap. Golden yellow, with reddish tint. T.—Superseded by Mme. E. Langlois.

Bendemeer. Jap. Rose violet and cream. T.—No value.

Bendigo. (Syn. Mabel Ward.) Inc. Buff. T.—Good, should be retained.

Ben Hur. Jap. Pink. T.—No value; A.—Good for plants.

Benoit Rozain. Jap. Bright satin rose. T.—Excellent for early blooming.

Bertha Flight. Jap. White. T.—No value.

Bertier Rendatler. (Syns. Mme. B. Rendatler and Curiosity.) Jap. Orange shaded with red and yellow. T.—Should be retained for odd color.

Bessie. Sing. White. T.—Good of its type.

Bessie Pitcher. Anem. White. T.—Good anemone; C.—No good.

Bettina. Inc. Clear bronze. T.—Good for a collection.

Beverley. Inc. White. T.—Good for collections.

Bicolor. Jap. (Syn. Prince Komatsky.) Red striped orange. T.—Superseded; C.—No value.

Birdsnest. Sing. Pink. T.—No value; C.—No good.

B. J. McGrann. Sing. White tinted lilac. T.—No value.

Black Beauty. Jap. Crimson maroon. T.—Very good for pot culture; C.—Fine flower, but color too dull; F.—Fine all round.

Black Douglass. Pom. Rich dark crimson. T.—Best early pompon.

Blanc Precoce. Jap. White. T.—Pure white, but no commercial value; C.—Not good enough.

Blanche Coles. Sing. White. T.—No value; C.—Superseded by Daisy.

Blanche Neige. Jap. White. T.—Superseded.

Blonde Beauty. Inc. White, flushed rose. T.—Superseded.

Blushing Beauty. Jap. Blush. T.—Superseded.

Blushing Bride. Pom. Blush white. T.—Good.

Bob. Pom. Crimson. T.—Introduced 1843, but still the best crimson pompon; C.—Still worth growing for pots, early.

Bohemia. Jap. Red. T.—No value; A.—Early, exhibition plant.

Bolero. Ref. Chrome yellow. T.—Early, excellent for pot culture; W.—Commercial use; F.—Good, commercial.

Bombardier. Jap. Amaranth. T.—Superseded.

Boule d'Or. Jap. Rich yellow, tinged brown. T.—Superseded.

Boule de Neige. Inc. White. T.—Superseded.

Boule de Neige. Ref. White. T.—Late, but little value; H.—Good midseason, but others better.

Boule de Neige. Anem. White. T.—No value.

Bouquet Fait (Syn. M. Planchenau). Soft rose pink. T.—Superseded by Vivand-Morel.

Bouquet National. Jap. Rosy nankin. T.—No value.

Brahma. Jap. White. T.—No value.

Brahma. Jap. Crimson and yellow, fimbriated. T.—No value.

Bras Rouge. Jap. Dark yellow, crimson reverse. T.—Good in a collection; C.—No good; A.—Superseded; H.—Good color, but too small.

Brazen Shield. Ref. Yellow. T.—Good for a collection; C.—No good.

Bride. Jap. White. T.—Good for pots; C.—Magnificent white for cut flowers, midseason; F.—Fine, but not much for commercial use.

Brilliant. Pom. Bright red. T.—No value.

Brilliant. Pom. Dull red crimson. T.—Good pompon.

Brise du Matin. Jap. Rosy mauve, shaded white. T.—Superseded by Mrs. A. Blanc.

Bronze Jardin des Plantes. Inc. Chestnut red. T.—Good; C.—No good.

Bronze Jewel. Jap. Bronze. T.—Superseded.

Bronze Queen of England. Bronze brown, tinted rose. T.—Good; C.—No good.

Bruce Findlay. Syn. Golden Empress of India.

Bruette. Pom. Amber shaded brown. T.—Good.

Brunhilde. Jap. Brown red, reverse yellow. T.—Superseded.



VIEW AT THE NEW YORK CHRYSANTHEMUM SHOW OF 1892

Brynwood. Jap. Lilac. T.—Superseded.
 Buttercup. (See Alice Bird).
 Caesar. Anem. Yellow, shaded red. T.—Good.
 California. Orange. T.—Superseded;
 F.—Rich color, but flower small.
 Calliope. Anem. Brassy red, orange center. T.—Good.
 Cambridge. Inc. Rich amber. T.—Superseded.
 Camille Flammarion. Inc. Dark violet. T.—Little value.
 Camille Richard. Ref. Cream, tinged pink. T.—No value.
 Canary Bird. Pom. Light yellow. T.—Superseded; H.—Early, but too small.
 Capt. Crosbie. Jap. Deep rose. T.—No value.
 Capt. Keen. Jap. Dark crimson. T.—No value.
 Capt. Nemo. Pom. Amaranth purple. T.—Good for pots.
 Capt. Ondine. Jap. Orange. T.—Superseded.
 Caprice. Jap. Yellow, light orange center. T.—Superseded.
 Captivation. Inc. Mauve. T.—Superseded.
 Capucine. Jap. Rich orange. T.—Superseded.
 Carew Underwood. Jap. Bronze. T.—Superseded.
 Carmen. Jap. Dull red, tipped orange. T.—Useful for a general collection.
 Carrie Denny. Inc. Clear amber. T.—Beautiful, but poor constitution; C.—No good, fine color, but poor constitution, should be dropped; H.—Fine, medium size, distinct.
 Castor. Jap. Blood red. T.—Brilliant color; good for collections.
 Catawba. Sing. Rose pink. T.—No value.
 Catherine Wheel. Anem. Rosy blush with cream center. T.—No value.
 Ceres. Jap. White tinged rose. T.—Possessing merit.
 Cesare Costa. Jap. Poppy red. T.—No value.
 Chang. Jap. Dark orange, tinted red. T.—No value.
 Charity. Ref. (Syn. Nirveb). Rose carmine. T.—No value; C.—Very fine pink, midseason.
 Chas. A. Reeser. Jap. Rosy pink. T.—No value; C.—No good.
 Chas. Canfield. Jap. Claret, reverse silvery pink. T.—No value.
 Chas. Delmas. Jap. Brick red. T.—Great merit as a pot plant.
 Chas. Dickens. Jap. Carmine, shaded violet. T.—No value.
 Chas. Gibson. Inc. Bronze red. T.—Good, should be retained.
 Chas. Halle. Ref. Bright pink. T.—No value.
 Chas. Henderson. Gold bronze. T.—No value.
 Chas. H. Walker. Crimson. T.—No value.
 Chas. Lebrorg. Anem. Buff. T.—No value.
 Charlie Pratt. (Syn. Geo. Pratt). Jap. Wine color. T.—No value.
 Charlie Sharman. Jap. (Syn. Pres. Spaulding). Deep magenta. T.—Useful in a collection.
 Chas. T. Yerkes. Scarlet and gold. T.—No merit.
 Charlotte de Montcabrier. Jap. Silvery rose. T.—Superseded.
 Cherub. Inc. Orange. T.—Good Chinese, should be retained, as taste for the incurved varieties is sure to return.
 Chevalier de Brazza. Jap. Bronze red. T.—No value.
 Chevalier Domage. Ref. Deep golden yellow. T.—Excellent for garden use, with dwarf habit.

Chicopee. Single. Magenta, reverse fawn. T.—No value.
 Chiffonier. Jap. Silvery pink. T.—No value.
 Chinoiserie. Jap. Dark chestnut red, tipped gold.
 Christmas Eve. Jap. (Syn. Mrs. H. Cannell). Pure white, late. T.—Excellent for late use, very dainty, unexcelled in its type. C.—No good; good in its day, but back number. H.—Very late, good form, medium size.
 Circé. Jap. Buff, shaded rose. T.—No value.
 Cite des Fleurs. Jap. Carmine amaranth. T.—No value.
 Citron. Jap. Lemon yellow. T.—Little value; C.—Good, midseason.
 Citronella. Pom. Bright yellow. T.—No value.
 Claire Robertson. Jap. Creamy pink. T.—No value.
 Clancy Lloyd. Jap. Flesh pink. T.—No value.
 Clara James. White. T.—No value; C.—No good; H.—Late, good for pots and cut flowers.
 Clara Rieman. Jap. Violet rose, center white. T.—No value.
 Clarence Bryant. Jap. Soft lemon, early. T.—No great merit.
 Claude Billiard. Jap. Violet. T.—No value.
 Claude Frollo. Jap. Pink. T.—No value.
 Cleopatra. Inc. Rosy blush. T.—Fine, should be retained.
 Clapatre. Jap. White. T.—Out of culture.
 Cloch of Gold. Ref. Light yellow. T.—No value.
 Cobasset. Sing. Deep pink, reverse yellow.
 Colibri. Jap. Dark crimson brown. T.—No value.
 Col. W. B. Smith. Jap. Bronze, early. C.—Very fine exhibition flower, new.
 Colorado. Jap. Bright yellow. T.—Superseded.
 Colossal. Jap. Pearly pink, late. T.—Superseded; H.—No good, bad form, bad grower.
 Comedie. Jap. Silvery rose. T.—No value.
 Comte Biela. Pom. Orange, shaded red. T.—Very good pompon.
 Commandant Baco. Jap. Dark salmon red. T.—Superseded.
 Commandant Riviere. Jap. Buff, dotted purple. T.—No value.
 Commandant Testart. Anem. Ray florets rose, disc white. T.—Good anemone.
 Commotion. Jap. Bright pink, white center. T.—No value.
 Compactum. Jap. Silvery peach. T.—No value; C.—No good.
 Comte Horace de Choiseul. Jap. Creamy white and rose. T.—No value.
 Comte de Gerniny. Jap. Nankin yellow, striped crimson. T.—Though introduced in 1867, it still holds high rank, valuable for cut flowers, a fine commercial variety; C.—Fine, midseason; A.—Good for exhibition.
 Comte de Moustie. Jap. Redcrimson. T.—No value.
 Comte de Mun. Jap. Rose, shaded silvery white. T.—No value.
 Comtesse Fouchet de Cariel. Jap. Orange, shaded red. T.—No value.
 Comtesse de Beauregard. Jap. Flesh pink. T.—No value.
 Comtesse de Villechaize. Jap. Copper yellow, striped red. T.—No merit.
 Conchiflora. Jap. Flesh pink. T.—Pretty, but not up to present standard.
 Condor. Jap. White. T.—Fine early white; C.—No good.

Connecticut. Jap. Deep madder, tipped white. T.—No merit.
 Connie Redford. Jap. Rose purple. T.—Of no merit.
 Coquette. Jap. Indian red, gold reverse. T.—Superseded.
 Coquette. Sing. Rosy pink. T.—No value.
 Coquette de Castile. Jap. Blush shaded rose. T.—Good pot plant, fine for market purposes.
 Coronet. Jap. Golden yellow. T.—Superseded; C.—No good; A.—Early; H.—Bad form, others better; W.—Early.
 Coriolan. Jap. Red and orange. T.—No value.
 Cortez. Jap. Mahogany. T.—No value.
 Cossack. Jap. Vivid crimson and gold. T.—No special value; C.—No good.
 Countess of Lytton. Jap. Creamy sulphur. T.—No value.
 Cravation. Pom. Crimson amaranth. T.—No value.
 Crimson and Gold. Sing. Fiery crimson, yellow center. T.—No value.
 Crimson Globe. Ref. Bright crimson. T.—No value.
 Crimson King. Jap. Crimson. T.—Color purplish, but fine for late specimens in pots; C.—No good; H.—Too small, dropped long ago.
 Criterion. Jap. Amber. T.—No value.
 Crown Prince. Jap. Blood red and old gold. T.—No value; C.—No good.
 Cry Kang. Jap. Rose magenta. T.—Superseded.
 Crystal Queen. Jap. White, broad petals. T.—No value.
 Cullingfordii. Ref. Brilliant crimson. T.—Fine for pots, best Chinese type of its color; C.—Still good on account of color, fine for pots, midseason; W.—Late.
 Curio. Jap. Pink. T.—No merit; C.—No good.
 Curiosity. Jap. Deep crimson and purple. T.—No special value.
 C. Wagstaff. Jap. White. T.—Superseded.
 C. W. De Pauw. Jap. Pearl pink. T.—Superseded; C.—No good.
 Cyclone. Jap. White. T.—No value; A.—Exhibition only.
 Cyrus H. McCormick. Deep yellow, shaded red. T.—No value.
 Cythere. Jap. Purple amaranth. T.—No value.
 Daisy. Sing. White. T.—No value; A.—Pot plant; H.—Will do for a single.
 Damascus. Scarlet and yellow. T.—No value.
 Dame Blanche. Anem. White. T.—No value.
 Dawzo Zaka. Jap. Claret crimson. T.—Little merit.
 David Allan. Jap. Chrome yellow and red. T.—No value; H.—Very large and double, poor for pots, gone out.
 David B. Hill. Jap. Canary yellow. T.—No value; A.—Exhibition only.
 D. B. Chapman. Jap. Deep lilac. T.—No value.
 Delaware. Anem. White, pale yellow center. T.—No value; C.—No good.
 Delicatum. Jap. Blush. T.—Superseded.
 Delhi. Orange and yellow. T.—No value.
 Delic. Jap. Dull red and yellow. T.—No merit.
 D. E. Stryker. Jap. Bright purple, reverse silvery. T.—Little merit.
 Diana. Inc. White. T.—Fine Chinese, with beautiful dwarf habit, excellent for pots; H.—Weak stem, flower too small, good habit for pots.
 Dick Turpin. Anem. Magenta crimson. T.—No merit.



VIEW AT THE NEW YORK CHRYSANTHEMUM SHOW OF 1892

Domination. Jap. (Syn. Mrs. Geo. Bullock and Mrs. De Witt Smith.) White, sometimes quite pink. T.—One of the best whites for market purposes, good foliage, compact habit and large flowers, holding as high a rank in reflexed forms as Ivory does among incurved. C.—Good, early, one of the best for either cut flowers or pots.

Dr. Callandreau. Lemon yellow. C.—Fine for exhibition.

Dr. Chas. Brigham. White. T.—Superseded.

Dr. Delaux. Jap. Canary yellow, midseason. T.—Of little value.

Dr. Dutraigne. Inc. Creamy white. T.—Superseded.

Dr. Hogg. Sing. Velvety crimson. T.—Of little merit.

Dr. Jeanbernard. Jap. Red and yellow. T.—No value.

Dr. John Tanner. Jap. Carmine and yellow. T.—Little merit.

Dr. Jougla. Jap. Violet and white. T.—Little value.

Dr. Macary. Jap. Rose, tinted white. T.—No value.

Dr. Masters. Jap. Red, striped yellow. T.—No value.

Dr. S. H. Metzger. Jap. Golden yellow, reverse brown. T.—No value.

Dr. Sharpe. Ref. Rich magenta purple. T.—Little value; H.—Dropped long ago, no good.

Dr. Steggall. Jap. Brown and gold. T.—No value.

Dr. Walcott. Jap. Rose shaded crimson purple. T.—No value.

Horie. Ref. Sulphur yellow. T.—May be dropped.

Hormillon. Jap. Rosy purple, T.—May be dropped.

Dragon's Head. Jap. Pink. T.—Odd, but no value.

Duchess. Ref. Red, tipped gold. T.—No value.

Duchess of Albany. Jap. Orange buff. T.—No value.

Duchess of Connaught. Jap. Delicate blush. T.—Superseded.

Duchess of Edinburgh. Anem. Blush pink, lilac center. T.—No value.

Duchess of Manchester. Inc. White, tinted blush. T.—Superseded.

Duke of Berwick. Jap. White, splashed rose crimson. T.—Little value.

E. C. Jukes. Anem. Purple, yellow disc. T.—No value.

Elatant. Jap. Brown, striped crimson. T.—No use commercially.

Eda Prass. Ref. Delicate salmon. T.—Very valuable as a pot plant; A.—Good all round; F.—Fine all round.

Edith M. Hollis. Jap. Rose pink. T.—Superseded.

Edna Craig. Anem. White. T.—Little value; C.—No good; A.—Difficult, but fine.

Ed. Hatch. Pink, early. C.—Fine for exhibition.

Eduard Audiguer. Jap. Crimson maroon. T.—Should be retained; A.—Good all round.

Eduard Lefort. Jap. Amaranth, speckled white. T.—No value.

Edwin Booth. Jap. Lemon yellow. T.—No value commercially.

Edwin Lonsdale. Jap. Deep cranberry. T.—Of no great merit; C.—No good; H.—Bad grower, flower too small.

Edwin Molyneux. Jap. Rich crimson, golden reverse. T.—Good for pots, fine color; C.—Desirable on account of bright color, midseason; A.—Good all round; H.—Good.

E. G. Hill. Jap. Bright yellow, striped red. T.—Excellent for shipping, packs well; C.—Fair; A.—Good all round.

E. H. Fidler. Jap. Yellow and bronze. T.—No value, poor grower; C.—Fine

bloom, but poor grower; A.—Exhibition only.

Elaine. Ref. White. T.—Good for early use; C.—Fine early pot variety, A.—Commercial use; F.—Very pure white.

Eldorado. Jap. Deep yellow. T.—Handsome flower, but poor habit; C.—Magnificent color, but rather poor grower, early; H.—Finest of early yellows, but poor grower.

Eleanor Oakley. Ref. Chrome yellow. T.—Superseded.

Eleonore. Pom. Bright rose. T.—No special merit.

Eleonore Bares. Jap. Rose and white. T.—Superseded.

Elsie Layellon. Pom. Golden rose and yellow. T.—No special value.

Elizabeth Bliss. Ref. Amaranth shaded violet. T.—No value, undecided color.

Elkhorn. Jap. Light pink, notched petals. T.—Odd, but poor; C.—No good; A.—Exhibition only; H.—Fine, but flower roots easily, has been dropped.

Elmer D. Smith. Jap. Cardinal red. T.—No great merit; A.—Good all round; F.—Fine for exhibitions.

Elsie. Ref. Canary yellow. T.—Not sufficiently distinct.

Emile Beloe. Jap. Violet and white. T.—No great merit.

Emily Dale. Inc. Pale straw. T.—Good flower of incurved type.

Emily Dorner. Jap. Orange yellow, touched crimson. T.—Good flower; A.—Exhibition.

Emily Selinger. Jap. Crimson amaranth, silvery reverse. T.—No value.

Emma Stevens. Ref. Creamy white. T.—Superseded.

Bennie Kicker. Ref. Cream white. T.—No great merit.

Emperor of China. Chin. Purple and white. T.—Good.

Empress. Anemone. Lilac. T.—Good anemone.

Empress Eugenie. Inc. Rosy lilac. T.—No great value.

Empress of India. Inc. White. T.—Not sufficiently distinct; H.—Poor grower, should be dropped.

Empress of Japan. (Syn. Belle Hickey.) C.—Beautiful form, fine for pots, midseason.

Enamel. Inc. Blush white, pink. T.—No value.

Enchantress. Jap. Roselighted violet. T.—No value.

E. B. Wilbur. Inc. Yellow. T.—Of no great value.

Erectum Superbum. Jap. (Syn. The Daimio.) Rose pink, spotted white. T.—No value.

Ernst Asmus. Ref. Chrome yellow, mixed red. T.—One of the best early chrome yellows, flowering before October 20; C.—Good, midseason; A.—Good for trade use; F.—Fine all round.

Esperanza. Ref. Blush, early. T.—Early flowering, but not otherwise valuable; A.—Early, but too small.

E. S. Renwick. Ref. Silvery blush. T.—No great merit.

Esther. Pale pink. Late. C.—Fine for exhibition, new.

Ethel. Jap. Pure white. T.—Superseded by others; H.—Should be dropped, better ones in same class; F.—Good, late.

Etiocant. Jap. Amaranth and yellow. T.—Little commercial value.

Etoile de Lyon. Jap. White, striped rose purple or violet. T.—A variety which came here with eclat, but has been a disappointment so far; not so good as L. Canning; C.—Very large, good, midseason; H.—Poor grower, dropped; F.—Good all round.

Etoile Fleuri. Jap. Salmon red, tipped orange. T.—Little value.

Etoile Orange. Pom. Scarlet orange. T.—Little merit.

Eucharis. Jap. White and yellow. T.—No value.

Eugene Giat. Ref. Rich orange, shaded brown. T.—Little merit.

Eugene Mezard. Jap. Amaranth, reverse yellow.

Eurus. Ref. Red bronze. T.—Very early, flowering about September 20, fine for pot plants or garden decoration.

Eva. Anem. Light rose. T.—No merit. F.—Fine for exhibition.

Evalen Stein. Jap. Greenish white. T.—No merit; A.—Good, late.

Eve. Inc. Cream white. T.—Superseded.

Excellent. Jap. Soft pink. T.—A very good soft pink; C.—Good early pink; A.—Good early sort.

Exposition de Chalons. Pom. Violet rose. T.—No value.

Exposition de Troyes. Jap. Silvery rose. T.—No value.

Eynsford Gem. Pom. Purple rose. T.—Little merit.

Eynsford White. Jap. Ivory white. T.—Superseded.

Fabian de Mediana. Anem. (Syn. Fabias de Maderanaz). Deep lilac, blush disc. T.—A showy and singular flower, valuable in a collection; F.—Excellent for exhibition when well grown.

Fair Maid of Guernsey. Jap. White. T.—Superseded; H.—Dropped, others better.

Fanny. Pom. Deep crimson. T.—Very good.

Fanny Black. Jap. Light pink, broad petals. T.—Superseded.

Fanny Bouchardot. Jap. Creamy white, tinted rose. T.—Little value.

Fantaisie. Pom. White, fimbriated. T.—No value.

Fantaska. Jap. Coppery maroon and yellow. T.—No value.

Fee Melusine. Jap. Lilac, white center. T.—No value.

Felicity. Ref. Cream white. T.—Superseded.

Ferd. W. Peck. Rosy pink. T.—Little merit.

Fernand Feral. Jap. (Syn. Bonnington). Rose mauve. T.—Superseded.

F. Fortescue. Jap. Dark carmine. T.—Little merit.

Fiberta. Pom. Canary yellow. T.—Very early, flowering before October 1, fine for pots.

Figaro. Jap. Carmine and pink. T.—Little value.

Fimbriatum. Jap. Delicate pink. T.—Superseded.

Fingal. Inc. Dark rose. T.—Superseded; C.—No good.

Firenze. Jap. Bright yellow. T.—This is in flower by October 10, valuable for cut flowers.

Fireball. Anem. Dull crimson. T.—No value.

F. J. Smith. Jap. Bronze and gold. T.—No value.

Flambeau. Ref. Orange crimson.

Flambeau Toulousain. Pom. Deep lilac. T.—No merit.

Flamboyant. Jap. Light mahogany, golden reverse. T.—Poor.

Flamme de Pouch. (Syn. Pouch). Orange, shaded red. T.—Poor.

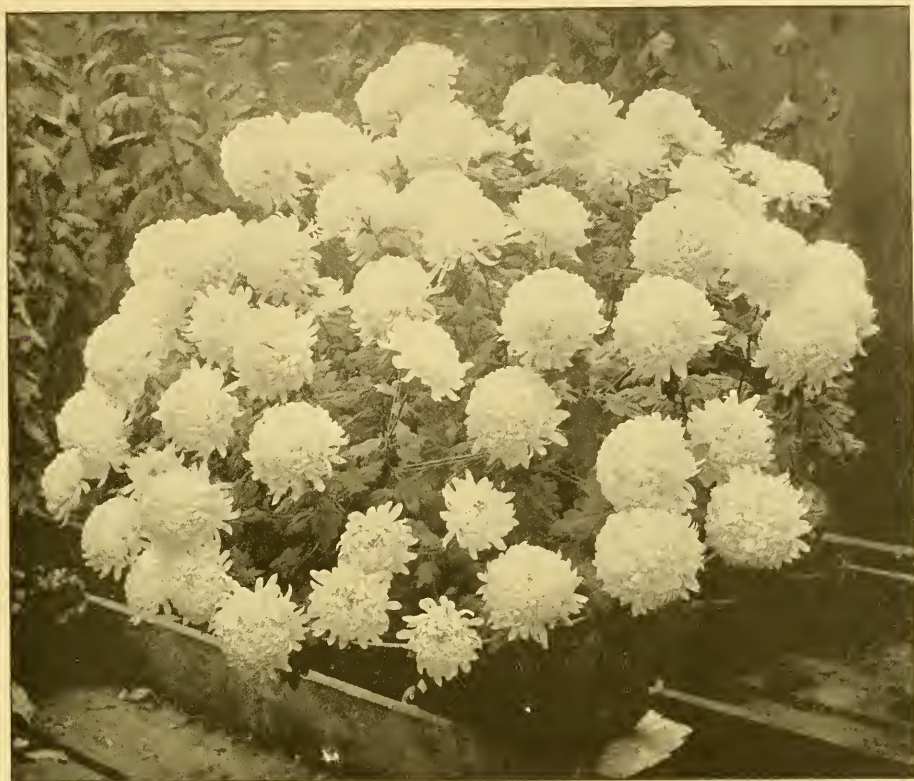
Flammula. Jap. Deep red, reverse gold. T.—Superseded.

Fleur de Marie. Anem. White. T.—Poor.

Fleur des Bois. Jap. Dark blood red, fragrant. T.—No value.

Fleur Parfaite. Jap. Fine satin rose. T.—Very dwarf, flowers early in October, should be grown more.

F. L. Harris. Jap. Cinnamon red. T.—No great merit.



SPECIMEN PLANT OF CHRYSANTHEMUM IVORY

Flora. Ref. White. T.—Superseded.
Flora. Pom. (Syn. Late Flora and Yellow Perfection). Deep golden yellow. T.—No great merit.

Flora Hill. Jap. White. T.—Good for exhibition flower; C.—Very large, fine, late; A.—Late; H.—Good for pots and cut flowers; F.—Fine for exhibition.

Flora Piercy. Jap. White. T.—Early, but not otherwise of merit.

Forester. Jap. White and carmine. T.—Superseded.

Fournaise. Jap. Firey red. T.—Color good, but little merit otherwise.

Frank Thomson. Jap. Pearly pink. T.—Fine flower, but excelled by Mrs. Farson; C.—Good, large and fine, mid-season; A.—Grand all round; H.—Good for pots and specimens; F.—Good all round.

Frank Wilcox. Ref. Amber. T.—No great value; H.—Good on account of color, fair market variety.

Fred. Hart. Ref. Rosy peach. T.—Not commercially valuable.

Fred. S. Winston. Jap. Cardinal red, reverse Indiau red. T.—Showy, but no great value commercially.

Fiemy. Pom. Cinnamon, tipped gold. T.—No great value.

Freyinet. Jap. Rosy white, shaded yellow. T.—Superseded.

Frizou. Jap. Lemon yellow. T.—Good, but lost to cultivation.

F. T. McFadden. Jap. Amaranth. T.—No great merit.

Fulton. Jap. Clear golden yellow. T.—Excelled by other yellows; C.—Fine for pots, midseason.

Garibaldi. Ref. Rose. T.—Superseded.

Garnet. Jap. Wine red, silvery pink reverse. T.—Superseded; H.—Dropped, many better.

Gaspard Rozain. Jap. Incurving silvery white, veined violet and carmine.

T.—Little known, but good and distinct.

General Bainbrigg. Inc. Dark amber. T.—Little commercial merit.

General de Negrier. Jap. Carmine red, tipped yellow. T.—No special merit.

General Slade. Inc. Dark orange, shaded red. T.—Superseded.

Genghis Khan. Jap. Yellow. T.—Little merit.

Geo. A. Backus. Jap. Scarlet, reverse rose. T.—Little value.

Geo. Bullock. Jap. Deep rose. T.—Superseded; H.—Dropped.

Geo. Daniels. Jap. Pale pink. T.—Superseded.

Geo. Maclure. Jap. Purplish red. T.—Little merit; C.—No good.

Geo. Peabody. Inc. White. T.—Superseded.

Geo. Pratt. Jap. (Syn. Chas. Pratt). Wine red, reverse bronze. T.—No great merit.

Geo. R. Davis. Jap. Blood red, reverse bronze. T.—Good color.

Geo. Walcott. Jap. Lilac, shaded pink. T.—Little value.

Geo. W. Childs. Ref. Crimson. T.—Without exception the most magnificent crimson grown. The standard for its type; A.—Exhibition; H.—Good of its color.

Georges Sands. Anem. Bronze red. T.—Little value.

Gerda. Ref. Deep yellow. T.—Superseded.

Gertrude Henderson. Ref. Yellow. T.—Superseded.

G. F. Moseman. Jap. (Syn. Baronald). Deep crimson, bronze reverse. T.—Superb for exhibitions, but not a market flower, does not pack well; C.—No good, bad stem; A.—Exhibition only.

Gladiator. Jap. Deep wine. T.—Excelled by several others.

Gladys Spaulding. Anem. Yellow. T.—Little merit; C.—No good.

Gloria Mundi. Inc. Deep yellow. T.—Good in pots; H.—Bad from mildew, weak stem.

Gloria Solis. Jap. Orange yellow, striped red. T.—Superseded.

Gloire de Toulouse. Jap. Deep rose, spotted white. T.—Superseded.

Gloire Rayonnante. Jap. (Syn. Porcupine and Hedgehog). Rose. T.—Little merit.

Gloire Toulousaine. Jap. Soft rose. T.—Superseded.

Gloriosum. Jap. Light yellow. T.—Good but superseded by Mrs. J. G. Whilldin.

Glack. Anem. Golden yellow. T.—Little value; H.—Good anemone, fine of its class.

Golconda. Jap. Canary yellow. T.—No value.

Gold. Jap. (Syn. Mrs. Richard Elliott). Deep yellow. T.—Good reflexed variety for midseason and later; C.—Fine for cut sprays. Late; A.—Late; H.—Good late variety, good all round.

Gold Band. Deep lemon yellow. T.—No great merit.

Gold Finder. Pom. Dark golden yellow. T.—No great merit; H.—Good pompon, still grown.

Gold Lace. Jap. Yellow, fringed. T.—Little merit.

Gold Thread. Jap. Crimson, maroon and yellow. T.—No value.

Golden Band. (Syn. Source d'Or.)

Golden Bedder. Pom. Bright yellow. T.—Little merit.

Golden Beverley. Inc. Golden yellow. T.—Superseded; H.—Poor grower.

Golden Burr. Sulphur yellow. T.—No merit.

Golden Christine. Ref. Light fawn yellow. T.—Superseded.

Golden Dr. Brock. Inc. Light yellow. T.—Superseded; H.—Poor grower, dropped.

Golden Dragon. Jap. (Syn. Yellow Dragon). Golden yellow. T.—Fine exhibition flower, but a delicate grower; H.—Dropped, too many imperfect flowers.

Golden Empress of India. Inc. (Syn. Bruce Findlay.) Pale yellow. T.—Should be retained, a fine incurved flower; H.—Poor grower, dropped.

Golden Fleece. Jap. Yellow. T.—Superseded.

Golden Fleece. Pom. Bright yellow. T.—Early, but of no great merit; H.—Good for pots, but too small, has been dropped.

Golden Gate. Old gold and buff, very early; C.—Fine for cut flowers.

Golden Geo. Glenny. Inc. (Syn. Wm. Dixon, Mr. C. H. Glover.) Yellow. T.—Good incurved but out of date; H.—Weak stem, has been dropped.

Golden Gloire Rayonnante. Jap. Yellow. T.—No great merit.

Golden John Salter. Inc. Amber. T.—Good, but out of date; C.—Fine for pots, early; H.—Subject to mildew.

Golden Mlle. Marthe. Pom. (Syn. Miss Oubridge.) Bright yellow. T.—Fine pompon.

Golden Mmc. Domage. Pom. Light straw. T.—Little value.

Golden Mmc. Desgranges. Jap. (Syn. G. Wermig.) Bright yellow. T.—This is one of the best outside in England, but here it will not do out of doors, and under glass it is a poor grower, losing its foliage readily; A.—Early commercial variety; H.—Dropped, many better.

Golden Prince. Jap. Primrose yellow. T.—Pretty, but superseded, H.—Too small, others better.

Golden Queen of England. Ref. Golden yellow. T.—Good; H.—Poor grower, many better.

Golden Rod. Jap. Golden yellow. T.—Superseded.

Golden Star. Jap. Clear yellow. T.—Little value.

Golden Travenna. Pom. Yellow. T.—Good hardy pompon for garden decoration.

Gorgeous. Jap. Golden yellow. T.—Superseded; C.—Good if grown under glass, fine for pots. Early.

Governor of Guernsey. Jap. Yellow. T.—Superseded.

G. P. Rawson. Jap. Buff. T.—No value.

Grace Attkick. Jap. White. T.—Superseded by better whites.

Grand Mogul. Jap. Violet Amaranth. T.—Little merit.

Grandiflorum. Jap. (Syn. Mr. Barnes.) Bright golden yellow. T.—Still an excellent variety either for trade or exhibition; C.—Still good. Has a tendency to come blind, midseason; A.—Late; H.—Fine for cut flowers and specimens.

Grover Cleveland. Old gold and bronze. T.—No value.

Guernsey Nugget. Inc. Primrose yellow. T.—Little value; H.—Poor grower, weak stem.

Gustave Nadaud. Jap. White and lilac. T.—Superseded.

Guy Fawkes. Inc. Bronzy red. T.—Superseded.

Gypsy. Jap. (Syn. Eclipse.) Light mahogany. T.—Little value; H.—Many better, dropped.

Hackney Holmes. Inc. Chestnut red. T.—No value.

Hamlet. Jap. Reddish brown and yellow. T.—Superseded.

Harman Payne. Jap. Bright rose, light. T.—Superseded.

Harmonie. Jap. Bright rose. T.—Superseded.

Hain Ko. Jap. Light pink. T.—Superseded.

Harriet Beecher Stowe. Jap. White. T.—Superseded.

Harry E. Widener. Jap. Yellow. T.—Probably the best of all mid-season yellows; C.—Still one of the very best, midseason; H.—Magnificent for cut flowers, useless otherwise.

Harry Townsend. (Syn. Amy Furze).

Harvest Queen. Jap. White. T.—Early but superseded by better varieties.

Harvey Bennett. Jap. Purplish red. T.—Little merit.

Hedgehog. (Syn. Gloire Rayonnante).

Helen Davis. Jap. Dark red, reverse yellow. T.—Little merit.

Helen of Troy. Ref. Pink. T.—Superseded.

Henderson & Son. Deep yellow. T.—Little merit.

Harry May. Jap. Bronze. C.—One of the best of 1891.

Henry Cannell (Syn. Mr. H. Cannell.) Jap. Golden yellow. T.—Fine flower, but weak stem—not so good as Kioto.

Henry Drake. Jap. Red brown. T.—Superseded.

Hercules. Inc. Reddish purple. T.—Little merit.

Hereward. Inc. Rosy purple, silvery back. T.—Little value; C.—No good.

Hero of Magdala. Jap. Blood red, reverse yellow. T.—Showy for pots, but superseded by later varieties.

Hero of Stoke Newington. Inc. Rose pink. T.—Superseded.

Hiver Fleuri. Jap. Rose white.

Hogarth. Jap. White and rose. T.—Superseded.

Holborn Beauty. Jap. Bronzy yellow. T.—Superseded.

Hon. John Welsh. Jap. Dark lake. T.—Superseded; H.—Too flimsy, dropped.

Indubras. Jap. Rose and yellow. T.—Little value.

Iluron. Jap. Mauve, tubulated. T.—Odd, but no value.

H. Waterer. Jap. Yellow, copper center. T.—Distinct, having peculiar color; C.—Good, late; H.—Very late, fine for cutting.

Iago. Inc. Purple violet. T.—Superseded.

Idalie. Jap. Dark carmine, spotted rose.

Id Japonaise. Jap. Rosy violet, tipped white. T.—Superseded.

Imogene. Inc. Silvery rose. T.—Superseded.

Incognito. (Syn. Mrs. Sharpe).

Incomparable. Jap. Bronze spotted crimson. T.—Little value.

Indiana. Jap. Rich lake. T.—Little value.

Indiana. Pom. Reddish orange. T.—No merit.

Inimitable. Pom. Amber. T.—No value.

Innocence. Jap. White. T.—Superseded.

International. Jap. White, streaked violet. T.—Strong grower, good for cut flowers.

Iona. Ref. Deep rose. T.—Superseded.

Iowa. Inc. White, tinted rose. T.—Superseded.

Irene. Ref. White, shaded rose and buff. T.—Little value.

Iroquois. Jap. Dull red. T.—No value.

Isabella Bott. Inc. Pearly white, tinted rose. T.—Very good.

Ithaca. Jap. Rose. T.—No value.

Ivory. Jap. White, early. T.—The perfection of whites for pots or cut flowers where extreme size is not needed; C.—One of the best, early. Good either cut or in pots; H.—Best of all whites for any purpose.

James F. Mann. Ref. White, center cream. T.—Superseded.

James Forsyth. Pom. Orange brown. T.—No value; H.—Dropped, others better.

James G. Blaine. Ref. Chestnut brown. T.—Superseded.

James R. Pitcher. Jap. Delicate blush. T.—Excelled by others of the same type.

James Salter. Jap. Lilac mauve. T.—Superseded.

James Weston. Anem. White, canary yellow disc. T.—Little merit.

J. A. Nicholson. Jap. Clear yellow. T.—Superseded.

Janira. Jap. Carmine red and purple. T.—Little merit.

Japonais. Jap. Bronze yellow. T.—Superseded.

Japonicum. Jap. Red and yellow. T.—No value.

Jardin des Plantes. Inc. Deep golden yellow. T.—Excellent for specimen plants.

Java. Crimson purple. T.—No merit.

J. Collins. Jap. Coppery bronze. T.—Little merit.

J. C. Vaughan. Jap. Crimson. T.—Fine color, good early sort; H.—Exhibition flower.

Jeanne d'Arc. Inc. Blush white, laced violet. T.—Still good; A.—Fine flower; H.—Dropped, others better.

Jeanne Danic. Jap. Golden yellow. T.—No value.

Jeanne Delaux. Ref. (Syns. F. A. Davis, J. Delaux, Jap. Fleuri.) Dark crimson maroon. T.—Fine dark flower for a collection, but no good commercially.

Jeanne Hachette. Anem. White, yellow disc. T.—No value.

Jeanne Martie. Anem. Blush white lilac disc. T.—No value.

Jean Humphrey. Jap. Fawn. T.—Superseded.

Jennie V. Munkland. Jap. Golden yellow. T.—Superseded.

Jessica. Jap. White, early. T.—Very valuable commercially, very large flowers, blooms by Oct. 10; C.—Extra fine, very early; H.—Fine early white, good all round.

Jessie C. Henszy. Pink shading to yellow. C.—Good for pots or cutting.

Jessie K. Crosbie. Pom. Sulphur yellow. T.—No value.

J. H. Bradbury. Ref. Yellow and crimson. T.—No value.

J. Lovring. Jap. White, inside of florets pink.

John Doughty. Inc. Delicate fawn, shaded bronze.

John Farrell. Jap. White. T.—No value.

John Firth. Jap. Pink, shading to rose. T.—No value.



A ROW OF BIG FELLOWS AT THE BOSTON SHOW

John Goode. Jap. Lavender, inner petals lemon yellow. T.—Superseded; C.—Fine color and form, but lacks size; A.—Good for cut flowers; H.—Pretty shade for cutting.

John Lane. Jap. Bright pink. T.—Superseded; H.—Late, good for pots and cutting.

John M. Hughes. Jap. Silvery pink. T.—Superseded. C.—No good; H.—Bad grower, dropped.

John Salter. Inc. (Syn. Mr. Howe) Cinnamon red, shaded orange. T.—Good incurved sort.

John Thorpe. Ref. Bright deep lake. T.—Distinct color and good flower; H.—Dropped, poor flower.

John W. Chambers. Sing. Golden yellow. T.—Little value.

John Webster. Ref. Brownish crimson. T.—Little value.

Jonquille. Jap. Jonquil yellow. T.—Little value.

Joseph Mahood. Jap. Orange yellow, tinged red. T.—No value.

J. T. Lovett. Jap. White. T.—Superseded.

Jubilee. Jap. White and rose. T.—Superseded.

Judge Rea. Jap. Pink. T.—Little merit.

Jules Toussaint. Jap. Carmine, silver reverse. T.—No value.

Julie Lagraverre. Ref. Dark crimson. T.—No value; H.—Too small, dropped.

Juliet. Sing. White. T.—No value.

Julius Caesar. Jap. Red orange. T.—Little value.

Julius Scharff. Jap. Amaranth purple. T.—No great value; H.—Too small, dropped.

Juno. Jap. Yellow. T.—No value.

Juno. Ref. Dull red. T.—No value.

Jupiter. Jap. Bright crimson red. T.—Little value.

Juvena. Jap. Dark crimson. T.—Like Abd el Kader, but a month later.

J. V. Farwell. Lavender shading to rose. T.—Little value.

Kaboyama. Sing. Wine red. T.—Little value.

Kabazamia. Jap. Crimson maroon. T.—Superseded.

Kaempfer. Jap. Bronze amber. T.—Superseded.

Kansas. Jap. Sulphur yellow. T.—Little value.

Katakana. Jap. Bronze. T.—Superseded.

Kate Rambo. Jap. White. T.—Superseded; C.—No good; H.—Dropped, many better.

Ka Ven. Jap. Rose and yellow. T.—Little merit.

Kearsarge. Light mauve. T.—Little merit.

Khivia. White and lilac. T.—Little merit.

King of the Anemones. Anem. Dull crimson. T.—Very good.

King of Crimson. Ref. Rich blood crimson. T.—Good color.

Kingess. Jap. Rose. T.—Little value.

Kioto. Jap. Deep yellow. T.—Very good for flowers, and makes a handsome plant; C.—Good, exquisite flower, weak stem, mid-season; A.—Fine all round, weak stem; H.—Good for specimen plant, weak stem.

Kirakana. Jap. Bronze. T.—Superseded.

Koko. Anem. Rose and bronze. T.—Superseded.

L'Adorable. Ref. Canary yellow, tinged purple. T.—Superseded.

L'Africaine. Jap. (Syn. Geo. Gordon.) Crimson red, reverse yellow. T.—Superseded.

L'Ami Bouchardot Aine. Jap. Crimson purple shaded violet. T.—Little value; few French varieties are up to our standard.

L'Ami Layton. Anem. Lilac center. T.—Poor.

L'Aube Matinale. Jap. (Syns. L'Aube National and Salmonum Plenum.) Salmon shaded orange. T.—No value.

L'Ebouriffe. Jap. Yellow. T.—Poor.

L'Eveurement. Jap. Rose and white. T.—Superseded.

L'Incomparable. Jap. Bronze spotted crimson. T.—Superseded.

L'Introuvable. Jap. Purple amaranth flushed white. T.—Little value.

L'Or du Japon. Jap. Rich yellow. T.—Superseded.

L'Or du Rhine. Ref. (Syn. Golden Rhine.) Clear yellow, striped red. T.—Superseded.

L'Original. Anem. Rose lilac, disc yellow. T.—Little value.

La Bienvenue. Jap. (Syn. J. Hillier.) Violet amaranth. T.—Little value.

La Desiree. Pom. White, pink center. T.—Excellent for pots.

La Favorite. Jap. Magenta purple. T.—Superseded.

La Fiancee. Pom. White, fimbriated. T.—Little value.

La Fortune. Jap. Golden yellow. T.—Superseded; A.—Good early.

La Frisure. Jap. (Syn. Early Rose

Queen.) Clear satin rose. T.—Good for pots.

La Neige, Pom. Pure white. T.—Little value; C.—Very early, should be grown under glass; H.—Good early pot plant.

La Nymphe. Ref. White, tinted lilac. T.—Usual in trade.

La Perle de Sales. Jap. White, striped rose. T.—Little value.

La Pureté. Pom. Pure white. T.—No great merit.

La Scabienne. Jap. Purple violet, silvery tips. T.—Little value.

La Tosca. Jap. Crimson and brown. T.—Superseded.

La Triumphante. Ref. White, suffused crimson rose. T.—Good for cut flowers, early.

La Vierge. Pom. White. T.—No great merit.

Laciniatum. Jap. White tinted pale lilac. T.—Superseded.

Laciniatum Roseum. Jap. Rosy violet. T.—Superseded.

Lady Brassy. Sing. Pure white. T.—No value.

Lady Carey. Inc. Rose lilac. T.—Sale from September 15 to Christmas.

Lady Churehill. Sing. Terra cotta, shaded yellow. T.—No value.

Lady Dorothy. Inc. Cinnamon buff, shaded rose. T.—Superseded.

Lady Dorothy Neville. Pom. Yellow. T.—No great value.

Lady Emily. Jap. White. T.—Little value.

Lady Godiva. Inc. Sulphur white. T.—Little value.

Lady Margaret. Anem. Pure white. T.—Little value.

Lady Matheson. Inc. Rosy white. T.—Little value.

Lady Selborne. Jap. White, early. T.—Good flower, though little grown now.

Lady Slade. Inc. Lilac pink. T.—Good incurved, but rather out of date.

Lady Talfourd. Inc. Silvery purple. T.—Superseded.

Lady Trevor Lawrence. Jap. (Syns. Mme. Beale and Robt. Bottomley.) Pure white. T.—Fine for pot specimen.

Lakme. Jap. Rose and cream. T.—Superseded.

Lakme. Ref. (Syn. Lincoln's Inn.) Dark orange. T.—Superseded.

Lallah Rookh. Jap. Brownish red, tubular petals covered with hairy growth. T.—Little value.

Lambeth Amateur. Dull white and yellow. T.—Little value.

Landon Humphrey. Jap. Deep rose. T.—Superseded.

L. Canning. Jap. White. T.—Very fine for commercial or exhibition use; C.—Fine for pots, midseason; A.—Pot plant; H.—Magnificent pot plant, good for cutting.

Le Cygne. Jap. White. T.—Superseded.

Leda. Jap. Light pink and white. T.—Superseded.

Le Dauphinois. Jap. Yellow. T.—No great merit.

Le Dentaure. Anem. Lilac. T.—No great value.

Le Negre. Jap. Dark crimson red. T.—No great merit.

Leon Frache. Jap. Silver white shaded rose. T.—Superseded.

Leopard. Sing. Mauve, spotted white. T.—Odd; but little value.

Le Reveil. Jap. Reddish salmon. T.—Superseded.

De Roi d'Ys. Jap. Red, reverse slaty white. T.—Little merit.

Le Spectre Toulousain. Jap. Bronze crimson. T.—Little merit.

Le Surprenant. Jap. Brown crimson, flushed yellow. T.—Superseded.

Le Tonkin. Jap. White and rose. T.—Superseded.

Lieutenant Palat. Jap. Orange. T.—Superseded.

Lilac Gem. Pom. Pale lilac and yellow. T.—Superseded.

Lilaie. Pom. Purple lilac. T.—Superseded.

Lilian B. Bird. Jap. Shrimp pink. T.—Beautiful flower, fine for exhibition, but weak in the stem; A.—Weak stem; H.—Fine for specimen plant.

Lily Bates. Jap. Rich pink. T.—Superseded; H.—Fine for cut flowers or pot plants.

Lily Ballet. Jap. White and rose. T.—Superseded.

Lily Burgess. Anem. Carmine pink. T.—Superseded.

Lillian Russell. Jap. Pink. C.—Early, good.

Little Tycoon. Ref. Dull pink. T.—Little merit.

Livadia. Anem. White. T.—No value.

Lizzie Cartledge. Jap. Dark rose, reverse silvery white. T.—Fine, but no great advance; A.—Fine all round.

Lizzie Gannon. Jap. Chrome yellow. T.—No great merit.

Lizzie Jones. Ref. Orange yellow. T.—Superseded.

Llewellyn. Ref. Orange red. T.—Suspended.

Lord Alcester. Inc. Pale primrose. T.—Very fine incurved flower.

Lord Beaconsfield. Jap. Salmon crimson, golden reverse. T.—Superseded.

Lord Byron. Jap. Orange, tipped red. T.—Superseded; A.—Unique; H.—Dropped, poor grower.

Lord Derby. Inc. Dark purple. T.—Good of this type, but somewhat out of date; H.—Poor grower.

Lord Elgin. Inc. Bronzed rose. T.—Little grown now.

Lord Eversley. Inc. Pure white. T.—No great merit.

Lord Mayor. Pom. White and violet, early. T.—No great merit.

Lord Tennyson. Jap. Cream and rose.

Lord Truro. Jap. Reddish yellow. T.—Superseded.

Lord Wolseley. Inc. Bronzy red. T.—Fine, of the Chinese type; H.—Dropped, poor grower.

Lorraine. Jap. Bronze yellow. T.—No value.

Louis Bochner. Jap. Pink, hairy florets. T.—Early, with a fine constitution; H.—Fine for pot plants, but loses color.

Louis Bonamy. Anem. Silvery lilac. T.—No value.

Louis Barthere. Inc. Crimson red. T.—Superseded.

Louis Barthere. Jap. Purple amaranth, large straight florets. T.—Odd, but no great value.

Louis Weille. Jap. Violet mauve. T.—No great merit.

Lucien Ballet. Jap. Purple. T.—Little merit.

Lucifer. Jap. Vermilion red, yellow reverse. T.—No value.

Lucrece. Jap. White. T.—Superseded, but still grown in pots.

Luna. Inc. White. T.—No great value.

Lune Fleurie. Pom. Deep bronzy orange. T.—No great value.

Lutea. Jap. Bright yellow. T.—Superseded.

Lyman J. Gage. White, late. T.—No great value.

Lyon. Pom. Bright rose purple. T.—No great value.

Mabel Douglass. Jap. Deep yellow. T.—Superseded; C.—Fine for pots, midseason.

Mabel Ward. Jap. Pink. A.—Good exhibition flower.

Macaulay. Jap. Golden yellow. T.—No special value.

Macbeth. Jap. Yellow and orange. T.—Little merit.

Maculata. Jap. Bright purplish red, spotted white. T.—Little value.

Mme. Amelie Ballet. Jap. White. T.—No value.

Mme. Berthe Piguy. Rose tinted golden yellow. T.—No value.

Mme. Castex Desgranges. Ref. White, tinted lemon. T.—Little value.

Mme. Chas. Raffard. Jap. Claret and cerise, edges old gold. T.—Superseded.

Mme. Clemence Andignier. Jap. Soft pink. T.—Very good, but superseded by Violet Rose; A.—Good for exhibition.

Mme. Delobel. Inc. Orange red, golden center. T.—Little value.

Mme. de Sevin. Ref. Rosy purple. T.—Little value.

Mme. Drexel. Jap. Lilac pink. T.—Syn. of Mrs. A. J. Drexel. H.—Dropped, poor grower; C.—Early, good.

Mme. Ed. Rey. Jap. Garnet red. T.—Little value; C.—Very early, fine for exhibition.

Mme. Ernest Bergman. Jap. White, striped rose. T.—Superseded.

Mme. Eugene Delamare. Jap. Rose lilac, tinted gold. T.—No great value.

Mme. Eugene Puvres. Jap. Dark vermillion. T.—No great value.

Mme. Ferdinand Bergman. Jap. White. T.—The best October flowering sort for pots in cultivation; A.—Very early, good commercial variety.

Mme. Frederic Mistral. Inc. Violet rose, salmon tipped. T.—Superseded.

Mme. Gaston Menier. Jap. Buff, shaded golden rose. T.—No value.

Mme. J. M. Piguy. Jap. Yellow, passing to white. T.—Superseded.

Mme. la Comtesse Foucher de Careil. Jap. Orange, shaded red. T.—No value.

Mme. Lassali. Jap. Amaranth and crimson. T.—Superseded.

Mme. Lay. Jap. Rich purple and magenta. T.—Good, but superseded.

Mme. Louis Henri de Vilmorin. Jap. Lilac rose. T.—Dwarf habit, but not remarkable.

Mme. Louise Leroy. Jap. White, tinged blush. T.—No great value A.—Late.

Mme. Marie Clos. Jap. Rosy pink. T.—Superseded.

Mme. Marty. Jap. Golden yellow, suffused rose. T.—Superseded.

Mme. Mezdard. Jap. Violet rose, speckled white. T.—Superseded.

Mme. Mistral Bernard. Inc. Light violet, reverse white. T.—Superseded.

Mme. Montels. Anem. White, yellow disc, small. T.—No value.

Mme. Mouynet. Jap. White, shaded rose. T.—Little merit.

Mme. Payne. Jap. White and rose. T.—Superseded.

Mme. Pierre Louis Blancard. Inc. White, striped crimson. T.—Superseded.

Mme. Robt. Owen. Anem. White, center flesh tinted yellow. T.—No value.

Mme. Roux. Jap. Amaranth red, white reverse. T.—Superseded.

Mme. R. Santel. Jap. Lilac rose, silver tips, dwarf. T.—No great merit.

Mme. Veuve Macary. Jap. Rose lilac. T.—Superseded.

Mme. Veuve Mennier. Jap. Violet rose, speckled white. T.—No value.

Mlle. Andrea Mary. Jap. Brick red and yellow. T.—Superseded.



CHRYSANTHEMUMS. PHOTOGRAPHED NOV. 5, 1892. FLOWERS GROWN BY W. N. RUDD.

- 1, Roslyn. 2, Waban. 3, Louis Bochner. 4, Source d'Or. 5, Mons. Cyper. 6, Lilian B. Bird. 7, Mrs. C. D. Avery.
 8, Kioto. 9, Ramona. 10, Mermaid. 11, Miss Mary Wheeler. 12, W. H. Lincoln. 13, Mrs. F. Clinton.
 14, L. Canning. 15, T. C. Price. 16, Golden Empress.

Mlle. Anna Delaux. Jap. White, flushed rose purple. T.—Superseded.

Mlle. Cabral. Anem. (Syn. Mme. Cabrol.) Pure white. T.—Good Japanese anemone.

Mlle. D'Arnaud. Pom. Rose purple, tipped yellow. T.—Little value.

Mlle. Elise Dordau. Pom. Soft lilac pink.

Mlle. Isabelle Bertin. Inc. White, tinted flesh color. T.—Superseded.

Mlle. Jeanne Pfitzer. Jap. White. T.—Superseded.

Mlle. Lacroix. Jap. (Syn. La Pureté). T.—One of the best early Japanese for market use, pots or flowers; A.—Early.

Mlle. Marie Hoste. Jap. Creamy white, sometimes striped with amaranth. T.—Little known, but good.

Mlle. Marie Humbert. Jap. Creamy white and rose. T.—Superseded.

Mlle. Marie Mawet. Jap. Orange old gold, shaded red. T.—Little value.

Mlle. Marthe. Pom. White. T.—No value.

Mlle. Melanie Fabre. Ref. Soft rose. T.—Superseded.

Mlle. Moulis. Jap. Creamy white. T.—Superseded.

Mlle. Paul Dintour. Ref. White, tinted rose lilac. T.—Superseded.

Mlle. Pepee. Jap. Violet rose. T.—Superseded.

Madge. White, early. T.—Superseded.

Maggie Mitchell. Jap. White and lilac.

Magicienne. Ref. Yellow, striped red. T.—No great value; A.—Early, drops easily.

Magnet. Jap. Heliotrope, striped rose. T.—Superseded.

Magnum Bonum. Jap. Rose purple. T.—Superseded.

Maiden's Blush. Ref. White, tinted blush.

Maid of Athens. Ref. Pure white. T.—Good, but now superseded.

Maid of Kent. Pompon. White. T.—Superseded.

Malabar. Inc. Pink, tinted violet. T.—Superseded.

Mahibran. Jap. Rose and white. T.—Superseded.

Mandarin. Jap. Deep Indian red. T.—Good, but superseded.

Mandus. Rosy white. T.—Little value.

Manhattan. Jap. Rose lilac. T.—Little value.

Manitou. Jap. White. T.—Superseded.

Marabout. Pom. White, fimbriated. T.—Good for collections.

Margot. Ref. Rosy salmon. T.—Little value.

Marguerite. Jap. Rose purple. T.—Superseded.

Marguerite d'Anjou. Anem. Nankin. T.—No value.

Marguerite de Coi. Anem. (Syn. De-fiance.) Blush. T.—Little value.

Marguerite de Vork. (Syn. Sunflower.) Yellow. T.—Superseded.

Marguerite Marrouch. Jap. Crimson. T.—Little value.

Marguerite Solleville. Anem. (Syns. Marguerite Telleville, Favorite de Solleville, Marquis de Telleville.) Rose lilac. T.—Superseded.

Marguerite Villageoise. Anem.—Blush, rose disc. T.—Little value.

Maria Stuart. Anem. Pale lilac, disc yellow. T.—No value.

Maria Ward. Jap. White. T.—Superseded; F.—Fine, early.

Marion. Ref. White, tinged pink. T.—Discarded.

Marquise de l'Espine. Inc. Rosy lilac. T.—Little value.

Marsa. Ref. Purple, center lilac and white. T.—Little value.

Martha Harding. Jap. (Syn. Thos. Todman). Golden yellow. T.—Good flower, peculiar in type.

Martin A. Ryerson. Jap. Silvery pink. T.—No great value.

Marvel. Jap. White, blotched carmine. T.—No great value; A.—Exhibition.

Mary. Jap. Creamy white and rose pink. T.—Superseded.

Mary Salter. Jap. White. T.—Superseded.

Mary Waterer. Jap. Delicate rose. T.—Superseded; H.—Good small pot plant, very late.

Massasoit. Dark pink. T.—Superseded.

Mastie. Jap. Ochre yellow, tinted red. T.—Superseded.

Mattie Bruce. Silvery pink. T.—Little value.

Mattie C. Stewart. Ref. Bright golden yellow. T.—Superseded.

Marret Postula. Jap. Violet rose. T.—Superseded.

May Hardwick. Pom. Bright orange yellow. T.—No great value.

Medusa. Jap. White, small thread-like petals. T.—Odd, but no great value.

Melton. Jap. Brick red and yellow. T.—Superseded.

M. E. Nichols. Ref. (Syn. October Beauty). White, streaked pink, salmon center. T.—One of the earliest, good for pots; C.—Fine for pots or sprays, very early; A.—Early commercial variety; F.—Good early for commercial use.

Mermaid. Jap. Pink. T.—Fine exhibition bloom; C.—One of the finest pinks for cutting, midseason; F.—Good all round.

Merrimac. Ref. Bronze. T.—Superseded.

Messrs. Thibaut et Keteleer. Jap. Velvety crimson. T.—Superseded.

Minnie Chate. Anem. Rose lilac. T.—No value.

Minnie Miller. Jap. Dark rose, large, very free. T.—Superseded; H.—Dropped, too small.

Minnie Palmer. Jap. White. T.—Superseded.

Minnewawa. Jap. Mauve. T.—Superseded.

Miss A. H. Bates. Inc. White. T.—No great value.

Miss Alice Broome. Jap. Crimson yellow, gold reverse. T.—Superseded.

Miss Annie Lowe. Anem. Bright yellow. T.—Little value.

Miss Anna Hartshorn. Jap. Pearl white. T.—No great value; H.—Dropped, very weak stem.

Miss Clara Harris. Jap. Pink and white. T.—Superseded; H.—Dropped, others better.

Miss Dohoo. Jap. Rose carmine. T.—No great value.

Miss E. A. Jacquith. Pom. Crimson, tipped gold. T.—Little value.

Miss Esmeralda. Jap. Crimson, tipped silver. T.—No great merit.

Miss Gorton. Jap. Creamy white. T.—Superseded.

Miss M. A. Haggas. Inc. Soft yellow. T.—Good for cutting.

Miss Margaret. Anem. White. T.—Little merit.

Miss Mary Morgan. Inc. (Syn. Pink Perfection). Light pink. T.—Fine flower, but there are better ones; H.—Fine, but weak stem, dropped.

Miss Mary Weightman. Jap. Chrome yellow. T.—Good, but excelled.

Miss Mary Wheeler. Jap. Blush and white. T.—Good; A.—Good all round; H.—Fine specimen and cut flower.

Miss Meredith. Jap. White, flushed pink. T.—Superseded; A.—Good all round; H.—Dropped, too small.

Miss Florence Davis. Ref. Jap. White. A.—Very good.

Miss Minnie Fritz. Inc. Jap. Pink. A.—Excellent.

Miss Minnie Wanamaker. Jap. White. T.—Fine for cut flowers or specimen plants, one of the best of midseason; C.—One of the finest whites, unexcelled, midseason; A.—Good all round.

Miss Stevens. Jap. Blush pink. T.—Superseded.

Miss Sue Waldron. Sing. Bronze. T.—Little value.

Mistletoe. Jap. Rich crimson, silver reverse. T.—Little value.

M. M. Delcau. Jap. White. T.—Superseded.

M. Albert de Leau. Anem. Rose and yellow. T.—Little value.

M. Alex Hugnier. Jap. Red and yellow. T.—No great value.

M. Ardenc. Jap. Rosy lilac. T.—Little value.

M. A. Vilmorin. Jap. Crimson orange. T.—Little value.

M. Bergmann. Jap. Dark yellow and violet red. T.—Little value.

M. Bernard. Jap. Rosy purple. T.—Superseded.

M. Blanc. Jap. Amaranth, silvery center. T.—Superseded.

M. Boucot. Jap. Rose, striped violet. T.—Superseded.

M. Bourguignon. Jap. Fiery crimson, shaded velvety black. T.—Rich color, but superseded.

M. Boyer. Jap. Lilac rose. T.—Fine exhibition flower; A.—Good plant, early; H.—Good small pot plant; F.—Fine for bush plants.

M. Brunet. Jap. Lilac mauve. T.—Little value.

M. Castel. Jap. Crimson and gold. T.—Superseded.

M. Chas. Balter. Jap. Carmine and yellow. T.—Little value.

M. Chas. Lehoetz. Anem. Bull, bright yellow disc. T.—Good.

M. Chatain. Jap. Carmine and white. T.—Superseded.

M. C. Hubert. Jap. Yellow and bronze. T.—Superseded.

M. Cyperc. Jap. Light rose, reverse white. T.—Superseded.

M. Dargonne. Jap. Brownish red. T.—Superseded.

M. Delannoy. Jap. Canary yellow. T.—Superseded.

M. Deville. Jap. Dark brown, crimson, reverse light gold. T.—Superseded.

M. Dufoisse. Jap. Violet rose, striped white. T.—Little value.

M. E. A. Carriere. Jap. White. T.—Superseded.

M. Edouard Andre. Jap. Bright gold, shaded crimson. T.—Fine, but superseded.

M. E. Pynaert Van Geert. Jap. Golden yellow, striped red. T.—No great value.

M. Ernest Bergmann. Jap. Old gold and crimson brown. T.—Superseded.

M. Ernest Contant. Jap. Salmon and yellow. T.—No great merit.

M. Freeman. Jap. Bright rose. T.—Superseded; H.—Good small pot plant.

M. Garnier. Jap. Orange, shaded chestnut. T.—Little value.

M. Ghys. Jap. Yellow, flushed lilac. T.—Superseded.

M. Harman Payne. Jap. Carmine red and gold. T.—Good, but superseded.

M. Harry Laing. Jap. Silvery white, tipped rose. T.—Superseded.

M. H. de Fontanier. Jap. Garnet red. T.—Superseded.

M. H. Elliott. Jap. Salmon buff, tinted rose. T.—Superseded.



CHRYSANTEMUMS. PHOTOGRAPHED NOV. 5, 1892 FLOWERS GROWN BY W N RUDD

1 Harry Balsley. 2 Mrs. B. Harrison. 3 Mrs. J. G. Whilldin. 4 Viviani-Morel. 5. Ada Spaulding. 6. V. H. Hallock.
7. Domination. 8 Minnie Wanamaker. 9 E G Hill. 10 J. C. Vaughan. 11. Mrs. Jerome Jones 12. Mrs. E. W. Clark.

M. Hemar. Jap. Tender rose, early. T.—Little value.

M. Henry Muys. Jap. Dark rose, lighter center. T.—Superseded.

M. Henry Jacotot. Jap. Crimson, shaded gold. T.—Little value.

M. Hoste. Pom. Blush white, fimbriated. T.—No great merit.

M. J. A. Laing. Jap. Reddish salmon. T.—Superseded.

M. J. Adelbert. Jap. Carmine red, shaded salmon. T.—Superseded.

M. J. N. Pigny. White sport of Soleil Levant. T.—Little merit.

M. Jno. Laing. Jap. (Syn. M. J. J. Hillier). Reddish brown, gold reverse. T.—No great value.

M. Lawson. Inc. Rose violet, shaded chamois, early. T.—Little value.

M. le Comte de Paris. Jap. Purple amaranth shaded silvery pink. T.—No special merit.

M. le Comte Foucher de Careil. Jap. Violet purple and white. T.—Good in a collection.

M. Lemoine. Jap. Buff, shaded red. T.—Little value; H.—Good in its day, but superseded.

M. le Prefet Rondineau. Jap. Rose and yellow. T.—Little value.

M. Leveque. Jap. Light rose. T.—Superseded.

M. Louis Langlois. Jap. Salmon yellow. T—Odd color, early bloomer; A—Early.

M. Mathonnet. Jap. Dark purple red, light center.

M. Montel. Jap. Salmon white. T.—Little value.

M. N. Davis. Jap. Deep blood red. T.—Little value; C.—Very early, good in pots.

M. Neville. Ref. Salmon, shading to pale blush, early. T.—Little value; F.—Extra early.

M. O. T. Hodges. Jap. White and purple. T.—Little merit.

M. Pankoncke. Anem. Purplish claret. T.—Little value.

M. P. Castex. Jap. Violet striped and spotted white. T.—Little value.

M. Pfitzer. Jap. Red. T.—Little value.

M. Phtzer. Jap. Rose and white. T.—Superseded.

M. Pierre Destombes. Jap. Rose lilac, center sulphur. T.—No special value.

M. Raoux. Jap. Amaranth spotted white. T.—No value.

M. R. Bahuant. Inc. Carmine rose, shaded cerise.

M. Robt. Owen. Jap. White striped rose. T.—Little value.

M. Robt. Owen. Inc. Dark rose, center and tips lighter. T.—Little value.

M. Ronx. Inc. Chestnut brown. T.—Little value.

M. Tarin. Jap. Silvery mauve. T.—Little value.

M. Victor Patallier. Jap. Yellow. T.—Superseded.

M. Ventousky. Crimson shade chamois. T.—Little value.

M. Vivand-Morel. Jap. Pale blush, deepening to rose. T.—Superb variety, fine show bloom, early; C.—Early.

M. Wick Fils. Ref. Crimson brown, shaded salmon. T.—No special value.

M. Yvon. Jap. Rose, tipped white, straw center. T.—No special value.

Model. Jap. Deep pink. T.—Superseded.

Model of Perfection. Pom. Lilac. T.—Not first rate; H.—Well named, fine pompon.

Modesty. Ref. White. T.—Superseded.

Mohawk. Jap. Red. T.—Superseded.

Molly Bawn. Jap. White. T.—Useful sort; A.—Good for exhibition.

Monadnock. Jap. Yellow. T.—Superseded.

Monarch. Inc. Indian red. T.—Little value.

Montauk. Jap. Crimson maroon, yellow center. T.—Little value.

Mont Blanc. Jap. White. T.—Superseded; H.—Fine late variety, cut or in pots, sells well, having no competition at its season.

Mont Ida. Jap. Golden yellow and carmine. T.—Little value.

Mont Plaisant. Jap. Red and yellow. T.—Little value.

Montezuma. Jap. Light red, yellow reverse. T.—Little value.

Moonflower. Sing. White. T.—Little value.

Moonlight. Jap. White. T.—Superseded; H.—Dropped, shook easily.

Moonstone. Inc. Snow white. T.—Superseded.

Mountain of Snow. Jap. White. T.—Excellent for market purposes.

M. P. Mills. Jap. Orange yellow. T.—Superseded.

Mr. A. H. Neve. Jap. Silvery blush, center rosy purple. T.—Little value.

Mr. Astic. Anem. Golden yellow. T.—Little value.

Mr. Brunelles. Inc. Indian red, tipped gold. T.—Little value.

Mr. Bunn. Inc. Bright golden yellow. T.—Very good.

Mr. Colbain. Inc. (Syn. Mr. Drain). Bronzy red. T.—Superseded.

Mr. C. Orchard. Jap. Chestnut red, shaded gold. T.—Superseded.

Mr. D. B. Chapman. Jap. Deep lilac. T.—Superseded.

Mr. Garnar. Jap. Rich yellow. T.—Superseded.



A GROUP OF WHITES.

1. Mrs. Gov Fifer. 2. Unnamed Seedling. 3. Mrs. Hood Wright. 4. Ivory. 5. Mrs. E. D. Adams. 6. Miss Florence Davis. 7. Jessica.

Mr. Geo. Glenny. Inc. Primrose yellow. T.—Fine flower.

Mr. Gladstone. Inc. Rich chestnut. T.—No great value; H.—Dropped, others better.

Mr. H. Cannell. Jap. Golden yellow. T.—Very good for commercial growing, though hardly equal to Kioto.

Mr. J. Lang. Inc. Yellow tinted orange. T.—Superseded.

Mr. Ralph Brocklebank. Jap. Yellow. T.—Still good, though crowded by later competitors.

Mr. Stephenson Clarke. Jap. Orange and red. T.—Superseded.

Mr. W. Barr. Jap. Crimson. T.—Superseded.

Mrs. A. Blane. Ref. Rich lavender. T.—Fine color and good flowers; H.—Good exhibition variety.

Mrs. A. C. Barpee. Jap. Amber and gold. T.—Little value; H.—Good of its color for exhibition; C.—Fine yellow, midseason.

Mrs. A. J. Drexel. Jap. Lilac pink, sometimes very deep. T.—Good flower for exhibition.

Mrs. Alphens Hardy. Jap. White, hairy florets. T.—Still the best hairy variety; H.—Fine for cut flowers, slender grower; on account of the care it requires it is not generally grown, poor habit for pots.

Mrs. Akers Allen. Ref. White. T.—Superseded.

Mrs. Andrew Carnegie. Jap. Crimson. T.—Showy, but superseded; A.—Going out; H.—Dropped, too rusty.

Mrs. Anthony Weigand. Jap. Rose. T.—Superseded; H.—Many better, dropped.

Mrs. A. Rogers. Yellow. T.—Little value.

Mrs. A. Waterer. Jap. White, broad petals. T.—Superseded; H.—Large and beautiful, but flowers lack substance, dropped.

Mrs. Benj. Harrison. Jap. Pearl white, flushed straw. T.—Superseded.

Mrs. Bliss. Jap. Lavender pink. T.—Superseded.

Mrs. Burrell. Ref. Pale primrose yellow. T.—Superseded.

Mrs. Castle. Jap. Creamy white. T.—Superseded.

Mrs. C. C. Georgeson. Jap. Rose pink. T.—No great merit.

Mrs. Chas. Dissel. Jap. Lavender pink. T.—No great merit; A.—Good, late; H.—Extra fine for cut flowers, late.

Mrs. Chas. Pratt. Anem. White, high center. T.—No great value.

Mrs. C. H. Wheeler. Jap. Crimson, old gold reverse. T.—Fine exhibition flower; H.—Superseded by Mrs. Wm. Bowen; C.—Extra fine, midseason.

Mrs. C. H. Clarke. Jap. Purple crimson. T.—No great value; H.—Color not desirable, dropped.

Mrs. Chas. Carey. Jap. White. T.—Good.

Mrs. C. L. Allen. Sing. Decprosc. T.—No value.

Mrs. Cleveland. Jap. White, tubular petals. T.—Odd, but little value; H.—Distinct, not generally grown.

Mrs. C. Orchard. Ref. Golden orange. T.—Little value.

Miss Kate Brown. New. Very early white. C.—Can be cut as early as Oct. 6.



GROUP OF YELLOWS AND BRONZES

1. Col. W. B. Smith. 2. Rohallion. 3. Volcano. 4. Mrs. J. G. Whilldin. 5. Hicks Arnold



GROUP OF CRIMSON AND PURPLE SHADES

1. Mrs. E. A. Wood. 2. Duchess of Albany. 3. Murillo. 4. Miss Bertha Robinson. 5. Edwin Molyneux.

Large flower, can be grown six to eight inches in diameter.

Mrs. D. D. L. Farson. Jap. Silvery pink. T.—One of the finest pinks for all purposes; C.—Large and fine, midseason.

Mrs. Dunnett. Jap. Rosy bluish. T.—Little value.

Mrs. Edmund Smith. Jap. White. T.—No value.

Mrs. E. G. Gilmore. Jap. Pink, white, green center. T.—No value.

Mrs. E. W. Clark. Jap. Deep carmine. T.—Fine for pots.

Mrs. Falconer Jameson. Jap. Orange bronze. T.—Superseded.

Mrs. Fottler. Jap. Bright pink. T.—

Fine for exhibitions; A.—Extra fine; H.—Good pot plant.

Mrs. Frank Clinton. Jap. Canary yellow. T.—Good, but excelled.

Mrs. Frank Thomson. Jap. Lilac pink silver reverse. T.—Superseded by Waban; A.—Extra good; H.—Fine for show plant or cut flowers; C.—Large and fine, midseason.

Mrs. Gane. Anem. Pure white. T.—Little value.

Mrs. G. D. Coleman. Ref. Deep lavender. T.—Superseded.

Mrs. Geo. Rundle. Inc. White. T.—Very good.

Mrs. Geo. W. Childs. Jap. White and

rose, silvery reverse. T.—Superseded; H.—Dropped, weak constitution.

Mrs. Grace Hill. Jap. Delicate bluish. T.—Superseded; A.—Early.

Mrs. Gov. Fifer. Jap. Cream white. T.—Fine exhibition flower, good habit.

Mrs. Halliburton. Inc. White. T.—Superseded.

Mrs. H. Coolidge. Sing. Yellow. T.—No value.

Mrs. Heale. Inc. White. T.—Superseded.

Mrs. Herbert A. Pennock. Jap. Orange yellow. T.—Superseded; A.—Late; H.—Very late, and fine for cutting only, can be kept till Christmas.

Mrs. H. Hawkins. Ref. (Syn. Golden Fleece.) Bright yellow. T.—Superseded.

Mrs. Hicks Arnold. Jap. Rose. T.—Fine for cut flowers or specimen plants.

Mrs. H. J. Jones. Jap. (Syn. Golden Yellow.) Yellow. T.—Little value.

Mrs. Hoff Beach. Jap. Lemon yellow. T.—Superseded.

Mrs. Hugh Graham. Inc. Pink lined white. T.—Superseded.

Mrs. Hutt. Pom. Brown. T.—No value.

Mrs. I. D. Sailer. Jap. Soft pink. T.—Superseded.

Mrs. Irving Clarke. Jap. Light pink. T.—Good for all purposes; C.—Immense pink, good, mid-season; A.—Good all round; H.—Fine specimen or for cut flowers.

Mrs. Isaac C. Price. Jap. (Syn. Mrs. J. C. Price.) Golden yellow. T.—Superseded; C.—One of the best for pots, mid-season; A.—Good all round.

Mrs. J. R. Pitcher. Jap. Blush white. T.—Out of cultivation.

Mrs. J. Crossfield. Inc. White shaded pink. T.—Superseded.

Mrs. J. G. Whilldin. Jap. Light yellow. T.—Has superseded Gloriosum; C.—Very early, will supersede Gloriosum; A.—Early; H.—Good early all round yellow, good stem, and improvement on Gloriosum.

Mrs. J. H. Taylor. Jap. Rose. T.—No great value.

Mrs. Jessie Barr. Jap. White. T.—Superseded.

Mrs. Jessie C. Henszey. Jap. Canary. T.—No great value; A.—Fine all round; C.—Good for pots.

Mrs. Jno. Gardiner. Yellow, new. C.—Fine for pots or cut flowers, midseason.

Mrs. J. N. Gerard. Jap. (Syn. Cornelius Vanderbilt.) Silvery rose. T.—Fine for cut flowers; C.—One of the finest, early; A.—Fine all round.

Mrs. J. N. May. Jap. Nankin yellow. T.—Superseded.

Mrs. Joel Bailey. Jap. White, lemon center. T.—No great value; C.—Large, extra fine, but rather poor grower, good for cutting, midseason.

Mrs. Jno. Petit. Jap. Terra cotta. T.—Little value.

Mrs. Jno. Thorpe. Jap. Deep crimson red. T.—No value.

Mrs. John Waunamaker. Jap. Lilac, silvery reverse. T.—No great value; H.—Color varies, dropped.

Mrs. J. S. Fogg. Jap. Chrome yellow. T.—Superseded.

Mrs. J. T. Emlen. Jap. Blood red, golden reverse. T.—No great value.

Mrs. Judge Benedict. Anem. White tinted rose, sulphur yellow disc. T.—Good anem.

Mrs. J. Wright. Jap. Pure white. T.—Superseded.

Mrs. Kendal. Jap. Bright mahogany. T.—Little value.

Mrs. Lay. Inc. Pearl white, tinged pink. T.—Superseded.

Mrs. Langtry. Jap. Pure white. T.—Excellent for pots.

Mrs. L. C. Madeira. Inc. Yellow. C.—

Very large and full, globular; H—Has a field of its own, and is valuable in any collection, flowers sell well.

Mrs. Levi P. Morton. Jap. Dull red. T—Superseded.

Mrs. Libbie Allen. Jap. Yellow. T—Superseded.

Mrs. Littlejohn. Ref. Golden yellow. T—Superseded.

Mrs. Lord. Jap. Clear yellow. T—Superseded.

Mrs. Maria Simpson. Jap. Bronze yellow. C—Good midseason for flowers or pots.

Mrs. Mardian. Pom. Blush rose. T—Little value.

Mrs. Mills. Jap. Bronzy buff. T—Little value.

Mrs. M. J. Thomas. Jap. Blush white. T—Fine for cut flowers; A—First-class; H—One of the finest, but liable to rust.

Mrs. M. Russell. Anem. Deep yellow. T—Little value.

Mrs. Naish. Inc. White. T—Superseded. Mrs. N. Hallock. Jap. White. T—Superseded.

Mrs. Norman Davis. Inc. Rich golden yellow. T—Superseded.

Mrs. Oliver Langhton. Inc. Rosy purple, tipped gold. T—Superseded.

Mrs. Pres. Harrison. Jap. Red, reverse yellow. T—Superseded; H—Drooping, color poor.

Mrs. R. D'Oyley Carte. Jap. Clear pink. T—Superseded.

Mrs. Richard Brett. Jap. Yellow. T—Superseded.

Mrs. Robt. Craig. Inc. White. T—Fine flower; C—Large, fine midseason; H—Going to be a fine white, perfect incurved form.

Mrs. R. J. Bayliss. Jap. Yellow, striped red. T—Superseded.

Mrs. Robertson. Jap. White, tinged lavender. T—Superseded.

Mrs. R. R. Mason. Jap. Coppery pink. T—Superseded.

Mrs. Russell Harrison. Jap. White. T—Superseded.

Mrs. Sam Houston. Jap. White. T—Superseded.

Mrs. Schuster. Jap. Deep violet. T—No value.

Mrs. S. Coleman. Inc. Yellow, tinged rose. T—Little value.

Mrs. Sharpe. Inc. (Syn. Incognito.) Rose pink. T—Little value.

Mrs. S. Humphreys. Jap. (Syn. Snow-hall.) White. T—Good, a useful late flower; C—Extra fine globular flower, late; A—Late, good.

Mrs. T. F. Gane. Anem. White, high center. T—No value.

Mrs. Thos. A. Edison. Inc. Rose pink. T—Little value.

Mrs. F. H. Spaulding. Jap. White. T—Superseded.

Mrs. T. Norris. Jap. Deep crimson amaranth. T—Superseded.

Mrs. Townsend. Jap. Claret crimson and yellow. T—Little value.

Mrs. Tyson. Jap. Peach pink. Superseded.

Mrs. Van Bergen. Inc. Lilac. T—Superseded.

Mrs. Vannaman. Jap. Cherry red. T—Little value; C—No good.

Mrs. W. A. Harris. Jap. Flesh pink. T—Superseded.

Mrs. W. K. Harris. Jap. Golden yellow. T—Superseded; C—Large, very fine, but poor grower, late; H—Fine for cut flowers but poor grower; F—Superseded by Widener.

Mrs. Wellam. Ref. White. T—Superseded.

Mrs. Weston. Inc. Rosy lilac. T—No value.



CALIFORNIAN VARIETIES

1. Golden Gate. 2. Harvest Moon. 3. C. Cruger. 4. Carmen Byron. 5. Lillian Cross.

Mrs. Wm. Bowen. Jap. Red, golden reverse. T—Superior to Mrs. Wheeler for specimens or cut flowers; C—Fine for pots, midseason; H—Best of its class, all round variety.

Mrs. Wm. Falconer. Jap. Blush white. T—Superseded.

Mrs. Wm. Hamilton. Jap. White. T—Unequaled as market pot plant for midseason.

Mrs. Wm. Howells. Jap. Red bronze. T—Superseded.

Mrs. Wm. Mencke. Jap. Bright yellow. T—Superseded.

Mrs. Wm. Robinson. Jap. Pink and white. T—Superseded.

Mrs. Wm. Walters. Jap. Crimson, gold reverse. T—Superseded.

Mrs. Winthrop Sargeant. Jap. Straw yellow. T—Superseded; H—Drooped, others better.

Mrs. W. Shipman. Inc. Fawn. T—Superseded.

Mrs. W. Wood. Sing. Snow white. T—No value.

Nagasaki. Jap. Dull red and gold. T—No value.

Nahanton. Inc. Deep pink, white tips. T—Little value.

Nain. Ref. Mahogany red, reverse gold. T—No value.

Nain Perpetual. Pom. Lilac. T—No value.

Nanum Tolosanum. Pom. Lilac. T—No value.

Narragansett. White, lacinated. T—Little value.

Nathan E. Reist. Jap. White. T—Little value.

Nesima. Jap. Deep orange yellow. T—Fine color, moderate in habit, but superseded by W. H. Lincoln.

Nelly Bly. Jap. Brassy gold. T—No value.

Nelson. Anem. Purple and crimson. T—No value.

Neptune. Jap. Rose purple, semi-caly. T—Little value.

Nevada. Ref. Pure white. T—Good.

Newport. Jap. Dull pink. T—No value.

Newton's Favorite. Jap. Golden amber. T—No value.

Nil Desperandum. Inc. Dark orange red. T—Useful in a collection.

Nineveh. Jap. Lilac rose. T—No special merit.

Nippon. Ref. Pink, white center. T—Superseded.

N. L. Standen. Jap. Cream white. T—Little value.

Nonvelle Myeole. Anem. (Syn. M. Castet.) Rose lilac. T—No value.

Novelty. Inc. Blush. T—Superseded.

Nuit d'Automne. Jap. Purple amaranth. T—Little value.

Nymphæa. Jap. White, fragrant. T—Small, but sweet-scented.

October Beauty. Jap. Pink. H—Very early, but does not sell when other pinks are in.

Octa. Inc. Yellow, shaded rose. T—Makes a showy flower.

O. J. Quintus. Jap. Rose lilac, passing to rose white. T—Little value.

Oldfield White. Jap. White. T—Little value.

Olympic. Jap. Salmon pink and gold. T—Little value.

Omar. Ref. Blood red. T—Little value.

Ondine. Inc. Cream and lilac. T—Superseded.

Oncida. Inc. Light pink. T—Superseded.

O. P. Bassett. Jap. Crimson. C—Larger flower than Cullingfordii, midseason.

Oracle. Jap. Rosy purple. T—No value.

Orange Beauty. Pom. Orange yellow. T—Very good.

Orange Quill. Pom. Orange red. T—Hardy, excellent for garden.

Orange Tassel. Jap. Yellow. T—No great merit.

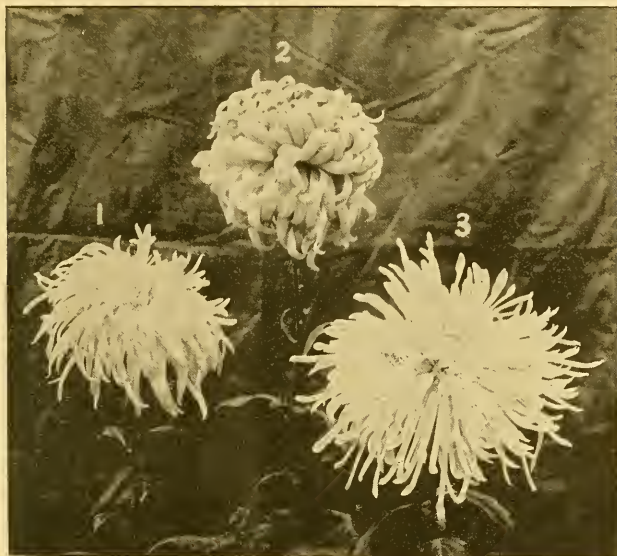
Oriental. Jap. Salmon and crimson. T—Little value.

Oriole. Crimson tipped gold. T—Very good for pots.

Ormonde. Jap. Orange red and yellow. T—Superseded.

Ornemental. Jap. Red and salmon. T—Superseded.

Osceola. Jap. Light red, reverse yellow. T—No great merit.



CALIFORNIAN VARIETIES

1. Mrs. Senator Hearst. 2. Dr. Callandreau. 3. Mount Whitney.

Osiris. Pom. Rosy purple. T—No value.

Ossian. Inc. Rose. T—Superseded. Othello. Jap. Jonquil yellow. T—Little value.

Palestine. Golden yellow. T—No value.

Parquette. Pom. Rose lilac, shaded white. T—Fine hardy pompon.

Passaic. Jap. White. T—No value.

Passenoy. Ref. Copper yellow T—Good flower, distinct color.

Peach Christine. Ref. Rose pink. T—Little value.

Peculiarity. Jap. Rosy crimson, tipped buff. T—Little value.

Pedro Diaz. Inc. Velvety granite red. T—Showy flower.

Peerless. Jap. White. T—Superseded.

Pelican. Jap. Pure white. T—Not much use commercially.

Pendennis. Rose madder, reverse silvery. T—No value.

Penelope. Jap. White, clouded rose. T—No value.

Pequillo. Pom. Rose crimson. T—Little value.

Pere Delaux. Ref. Dark velvety crimson. T—Little value.

Perfection. Pom. Brown red, tipped yellow. T—No value.

Perfection. Jap. White, shaded pink and lavender. T—Superseded.

Perle des Beantes. Pom. Crimson. T—No value.

Perle Precieuse. Inc. Rose purple. T—No value.

Pet. Pom. Orange, crimson reverse. T—Good.

Peter B. Mead. Jap. Primrose yellow. T—Superseded.

Peter the Great. Jap. Lemon yellow. T—Little value.

Petillant. Pom. White. T—Little value.

Petit Antonin. Jap. Red and chestnut. T—Superseded.

Phedre. Jap. Crimson and orange. T—Little value.

Phidias. Ref. Rose blush. T—Superseded.

Philip Breitmeyer. Jap. Golden yellow. T—Superseded.

Phillipe Lacroix. Jap. Rose and white. T—Superseded.

Phoebe. Ref. Golden yellow. T—Superseded.

Piercy's Seedling. Pom. Orange yellow. T—Little value.

Pierre Brefiel. Jap. Dark ochre-yellow. T—No great merit.

Pink Christine. Ref. Light pink. T—No value.

Pink Lacroix. Jap. (Syn. Annie Clibran.) Pink sport from Mlle. Lacroix. T—Early and distinct.

Pink Pearl. Jap. Rose pink. T—Little value.

Pinwheel. Jap. Yellow. T—No value.

Piquat. Jap. Dark red. T—No value.

P. Malley. Inc. Deep pink sport from Mrs. Sharpe. T—Little value.

Pollux. Jap. Salmon red and yellow.

Potomac. Ref. Bronzy yellow, early. T—Little merit except earliness.

Potter Palmer. Jap. White. T—Little value; A—Late.

Precocite Japonaise. Pom. White, striped purple. T—Little value; A—Early.

President. Pom. (Syn. Mr. Murray). Dark rosy crimson. T—Little value.

President Arthur. Jap. Rose. T—Good for exhibition; H—Fine in its day, but weak stem, dropped.

President Cleveland. Jap. White, shaded pink and lavender. T—No value.

President Garfield. Jap. Carmine. T—No value; H—Drooped on account of color.

President Harrison. Jap. Bronzy red. T—Little value; H—For exhibition.

President Hyde. Ref. Golden yellow, early. T—Fine for pots; C—Fine for pots, early; F—Good all round, fine for pots.

President Lavalley. Inc. Reddish brown. T—Little value.

President Parkman. Jap. Purple magenta. T—Not bright enough.

Prince Alfred. Inc. Rose carmine, shaded purple. T—Good Chinese type.

Prince Karl. Ref. Purple. T—Little merit.

Prince of Orange. Pom. Light orange amber. T—Little value.

Prince of Wales. Inc. Purple. T—Out of date, but likely to revive; H—Dropped, weak color.

Princess Beatrice. Inc. Rose pink. T—Fine incurved; H—Dropped on account of color.

Princess Louise. Anem. Rose lilac. T—No value.

Princess Melitia. Pom. White, fimbriated. T—No value.

Princess of Teck. Inc. White, suffused pink. T—Late, grown in London for Christmas trade; H—Dropped on account of color.

Princess of Wales. Inc. Blush rose. T—Good.

Priscilla. Jap. Reddish salmon. T—Little value.

Progression. Jap. White, late. T—Little value.

Public Ledger. Jap. Pink. T—No value; H—Poor grower, dropped.

Pump Court. Ref. Purple amaranth and silver. T—No value.

Puritan. Jap. White, flushed lilac. T—Fine exhibition flower; A—Extra all round; H—Fine pot plant.

Purple King. Ref. Dark purple. T—No value.

Putney George. Ref. Brilliant crimson. T—Little value.

Quadrilateral. Cream white and rose, streaked lilac and yellow. T—Poor.

Queen of England. Ref. White. T—Good old sort; H—Dropped, poor grower.

Queen Margaret. Anem. Rose lilac. T—No value.

Queen of the Anemones. Anem. Rose crimson. T—No value.

R. Abbott. Jap. White and mauve. T—No value.

Ramona. Jap. Light amber. T—Fine habit for pots.

Ratapail. Anem. Red brown. T—No value.

Raven. Jap. Dark red. T—No value.

Ray Golden. Jap. Orange bronze. T—Little value.

Red Dragon. Jap. Orange red. T—Superseded.

Refulgens. Inc. Rich purple maroon. T—Little value.

R. E. Jennings. Jap. Dark crimson, tipped yellow. T—Not much value.

Remarkable. Jap. White, shading peach. T—Superseded.

Rev. J. Y. Mitchell. Jap. Dark red. T—Superseded.

Reward. Jap. Reddish violet. T—No value.

Rival Little Harry. Inc. Orange yellow. T—No value.

R. Maitre. Jap. Pink. T—Superseded; A—Exhibition flower.

Rob Roy. Jap. Orange, red and yellow. T—Little value.

Rob Roy. Jap. Orange and gold. T—Little value.

Robt. A. Waller. Jap. Chamois yellow. T—Little value.

Robt. Cannell. Inc. Crimson and gold bronze. T—No great value.

Robt. Craig. Jap. Red, silver reverse. T—Little value; H—Poor grower, dropped.

Robt. Crawford. Jap. Pink. T—Superseded; A—Exhibition; H—Exhibition and pot culture.

Robt. Flowerday. Jap. Lake, pink reverse. T—Good in a collection.

Robt. Owen. Ref. Golden yellow, shaded rose and violet. T—Little value; A—Exhibition.

Robt. S. Brown. Jap. Reddish violet. T—No value.

Robt. Walcott. Jap. Crimson. T—Superseded.

Rohallion. Jap. Rich yellow. T—Fine for cut flowers, early; II—Good for cut flowers.

Roi des Precoces. Jap. Dark crimson. T—No value.

Rolfin Thatcher. Jap. Dark crimson. T—Little value.

Rosa Bonheur. Jap. Deep rosy purple. T—Little value.

Rosa Superba. Jap. Soft rose, white reverse. T—Little value.

Rosalind. Sing. Bright pink. T—No value; A—Late, very fine.

Roseum Pictum. Jap. Rich plum. T—Little value.

Roseum Superbum. Ref. Rosy lilac, shaded buff. T—Little value.

Rose Beauty. Jap. Rose lilac. T—No value.

Rose Hill. Jap. Pale pink. T—No value.

Rose Lau. Jap. Rose. T—No value.

Rose Laing. Jap. Claret crimson, center crimson. T—No value; A—Very early.

Roslyn. Jap. Pink. C—Midseason, fine for exhibition.

Rose Pointillee. Jap. Rose lilac and yellow. T—No value.

Rose Queen. Jap. Rose amaranth. T—No value.

Rubans de Grand Mere. Jap. Buff, striped carmine. T—Odd, good for a collection.

Rubra Superba. Jap. Dark crimson. T—No value.

Rubrum Striatum. Jap. Crimson, shaded violet and yellow. T—No value.

Ruche Toulousaine. Anem. Lilac rose and white. T—No value.

Russell. Ref. White, early. T—No value.

Sabine. Anem. Sulphur yellow. T—Good anemone.

Sabine Mea. Inc. Golden yellow. T—No value.

Sachem. Ref. Yellow. T—No value.

Sadie Martinot. Sing. Golden yellow. T—No value; A—Late.

Saladin. Jap. Dusty gold. T—No value.

Sallie McClelland. Jap. Blush white. T—Superseded.

Salomon. Pom. Rose carmine. T—No value.

Salterii. Ref. Reddish carmine. T—No value.

Salvator. Ref. Reddish crimson, early. T—Good for garden decoration.

Sam Henshaw. Jap. Rose purple. T—No value.

Sam Sloan. Ref. Pale blush. T—No value.

Samson. Jap. Bronzy red. T—No value.

Sam Weller. Inc. Red and yellow. T—No value.

Samuel Morley. Ref. Fiery crimson. T—Little value.

Sanspareil. Pom. Crimson claret, shaded gold. T—No value.

Saracen. Jap. White. T—No value.

Sarah Owen. Jap. Gold bronze, shaded rose. T—No value.

Sarnia. Jap. White, tinted rose purple. T—Little value.

S. B. Dana. Jap. Orange brown. T—Little value.

Scapin. Rosy crimson, fimbriated. T—No value.

Secrétaire Barotte. Jap. Indian red and yellow. T—Little value.

Secrétaire Daurel. Pom. Rose lilac, striped. T—No value.

Semiramis. Jap. Maroon, reverse yellow. T—No value.

Shasta. Jap. White, tubular. T—Very fine for cut flowers, dwarf.

Shower of Gold. Ref. Yellow, late. T—Little value.

Silver Chalice. Jap. White. T—Superseded.

Silver Tassel. Jap. Silvery white. T—No value.

Simon Delaux. Jap. Bright crimson. T—No value.

Sir Beauchamp Seymour. Inc. Bronze red. T—Little value.

Sir Roderick. Jap. Lilac. T—No value.

Sir Stafford Carey. Inc. Chestnut, tipped gold. T—Little value.

Snowcrest. White, center lemon. T—No value.

Snowdrift. Ref. White, lacinated. T—No value.

Snowdrop. Pom. Pure white, small. T—No value.

Snow Drops. Inc. White. T—No value.

Snow Fairy. Jap. Pure white. T—No value.

Snowstorm. Jap. White. T—Superseded.

Sœur Dorothee Souille. Anem. Light rose, bluish disc. T—No value.

Sœur Melanie. Pom. White. T—No value.

Sokoto. Jap. Yellow. T—Superseded.

Soleil d'Automne. Jap. Sulphur white. T—No value.

Soleil d'Or. Jap. Red and yellow. T—No value.

Soleil Levant. Jap. Light yellow. T—Superseded.

Source d'Or. Jap. Orange, gold shading. T—Early, good for pots; A—Good commercial; C—Fine in pots.

Souvenir d'Alfred Motte. Inc. Deep red, loose flower. T—No value.

Souvenir d'Angele Amiel. Jap. Rose carmine and white. T—Superseded.

Souvenir de Jersey. Pom. T—No value.

Souvenir de l'Ardenne. Anem. Rose mauve, bluish center. T—Little value.

Souvenir de l'Exposition de Roubaix, 1887. Jap. Mahogany red, tipped gold. T—No value.

Souvenir de Mercedes. Inc. Bright pink. T—Little value.

Souvenir de M. Menier. Jap. Crimson red, shaded brown, reverse gold. T—Little value.

Souvenir de Van Houtte. Jap. Buff white. T—Little value.

Souvenir de Victor Delanol. Jap. Orange red, tipped gold. T—Little value.

Souvenir du Japon. Jap. Rose lilac. T—Little value.

Spiralis. Jap. White, early. T—Little value.

Stanley. Jap. Poppy red and chrome yellow. T—Little use.

Stanstead Surprise. Jap. Reddish purple. T—No value. A—Exhibition.

Stanstead White. Jap. White. T—Still good.

Stars and Stripes. Jap. Carmine and white. T—No value.

Stella. Pom. Yellow. T—Little value.

Stonewall Jackson. Jap. Satiny white. T—Superseded.

Strathmearth. Ref. Rosy pink. T—Good.

Striatum Perfectum. Jap. White striped rose. T—No value.

St. Michael. Pom. Rich golden yellow. T—Little value.

St. Patrick. Inc. Bronze red. T—No value.

St. Sophia. Jap. Lilac. T—No value.

Sugar Loaf. Jap. Buff. T—No value; H—Dropped, poor grower.

Sunal. Jap. Bright pink. T—Little value.

Sunbeam. Jap. Rich yellow. T—Superseded.

Sunflower. Jap. (Syn. Swanley Yellow.) Rich golden yellow. T—Superseded; A—Early.

Sunnyside. Jap. Creamy white. T—Superseded; A—Early.

Smsct. Sing. Rich orange yellow, mixed red.

Superbiflora. Jap. Carmine rose and white. T—Showy when grown to single stem, but superseded; A—Fine for exhibition.

Surprise. Pom. Rose. T—No value.

S. W. Allerton. Jap. White. T—No value.

Swanley White. Jap. Ivory white. T—No value.

Sylphide. Jap.—Chrome yellow, striped chestnut. T—No value.

Syria. Jap. Yellow and carmine. T—No value.

Syringa. Jap. Rose lilac. T—Still good; A—Good, late; H—Beautiful variety, but has been discarded on account of weak stem.

Tacoma. Jap. Cream white. T—Superseded.

Talfourd Salter. Ref. Bright red, shaded carmine. T—Little value.

Target. Jap. Brilliant crimson. T—No value.

T. C. Price. Jap. Strawberry. T—Fine exhibition flower; A—Fine for exhibition.

Tecumseh. Jap. Brown red, reverse lighter. T—No value.

Temple de Salomon. Ref. Bright yellow. T—Superseded, A—Fine for exhibition; II—Not grown much, being a weak grower.

Tensia. Jap. White and yellow. T—No value.

T. F. Martin. Jap. Bronze. T—No value.

The Bride. Jap. White. T—Good for specimens; A—Exhibition.

The Cossack. Jap. Vivid crimson and gold. T—No value.

The Khedive. Jap. Lilac. T—No value.

The Mikado. Jap. Yellow and red. T—No value.

The Sultan. Jap. Rose purple. T—No value.

The Virgin. Sing. White. T—No value; A—Exhibition flower.

Theodora. Jap. Salmon rose, straw center. T—No value.

Thistle. Jap. Lemon yellow and white.

Thos. Cartledge. Jap. Brassy yellow. T—Superseded; A—Late.

Thorpe, Jr. Anem. Bright yellow. T—No value.

Thunberg. Jap. Soft golden yellow. T—Superseded.

Tiber. Pom. Red crimson, tipped gold. T—No value.

Timbal d'Argent. Anem. Pure white. T—Superseded.

Tokio. Jap. Red crimson, tipped yellow. T—Brightest red we have, fine for pots; A—Fine specimen bush plants.

Tom Child. Jap. Reddish crimson. T—No value.

Toussaint l'Ouverture. Pom. Rose pink, tipped yellow.

Tragedie. Pom. Purple rose. T—No value.

Tremont. Jap. Yellow. T—No value.

Triomph d'Anzin. Anem. Light lilac. T—No value.

Triomphe de la Rue des Chalets. Jap. Reddish salmon. T—Little value.
 Triomphe de l'Exposition de Marseilles 1888. Jap. Rosy buff. T—Little value.
 Triomphe de l'Exposition de Paris 1888. Jap. White, striped and blotched violet. T—No value.
 Triomphe du Nord. Ref. Bronze crimson. T—Superseded.
 Troubadour. Jap. Violet rose. T—Showy flower.
 Tubiflorum. Jap. Rose mauve. T—No value.
 Tusaka Takaki. Jap. Blush, striped pink. T—Little value.
 Tuxedo. Ref. Amber. T—Without doubt the best amber, either for trade or exhibition.
 Twilight. Jap. White, yellow center. T—No value.
 Tyndare. Jap. Dull white, speckled. T—No value.
 Uji. Ref. Drab brown, livid crimson. T—No value.
 Unique. Jap. Yellow. T—No value.
 Val d'Or. Pom. Clear bright yellow. T—Little value.
 V. de Montal. Jap. Dull crimson. T—No value.
 Venus. Inc. Lilac. T—Good for Chinese specimen.
 V. H. Hallock. Jap. (Syn. Dawn.) Rosy pearl. T—Good habit, fine exhibition flower, but soft for shipping. C—One of the very best, midseason; A—Fine commercial variety; F—Finest pink.
 Viceroy of Egypt. Jap. Rosy crimson, white reverse. T—No value.
 Victorine. Pom. Maroon crimson. T—No value.
 Vicil Or. Jap. Yellow. T—No value.
 Ville de Marseilles. Jap. Rose, shaded lilac. T—Little value.
 Violet Rose. Jap. Violet rose. T—Grand flower for exhibition; C—Very full and large, midseason; H—Best of its color for all purposes.
 Violet Tomlin. T—Good Chinese.
 Violet Unique. Ref. Rose violet. T—No value.
 Virginal. Anem. (Syn. Mme. Graeme.) Pure white. T—No value.
 Virginalis. Inc. White. T—Superseded.
 Virginia. Ref. Rose madder. T—Little value.
 Vishnu. Anem. White. T—No value.
 Vivand-Morel. Ref. Rose, striped white. T—Fine exhibition flower; C—A perfect beauty, midseason; A—Finest grade; F—Good all round.
 Vizier. Anem. White. T—No value.
 Volunteer. Inc. Amaranth. T—Little value.
 Volunteer. Jap. Flesh pink. T—Little value.
 Vulcan. Inc. Crimson red.
 Waban. Jap. Pink. T—One of the most beautiful of recent introduction, fine for cut flowers or exhibition; C—Good, broad petals, fine form, midseason; A—Fine exhibition flower; F—Specimen blooms only.
 Walter Packman. Ref. Canary yellow. T—No value.
 Warrior. Jap. Red, reverse crimson. T—Little value.
 Welcome. Jap. Chrome and bronze. T—Little value.
 Wenonah. Jap. Lavender pink. T—Little value.
 We Wa. Jap. Crimson, bronze reverse. T—No value.
 Weymouth Belle. Jap. Pink, shaded magenta. T—No value.
 Whirlwind. Anem. White, tinted bluish. T—Little value.

White Bedder. Pom. White. T—Little value.
 White Cap. Jap. Satiny white. T—Superseded; H—Dropped, too small, weak grower; F—Late.
 White Cap. Ref. White, reverse pink. T—Little value.
 White Dragon. Jap. White. T—Superseded.
 White Globe. Inc. White. T—Superseded.
 White Venus. Inc. Pure white, sport from Venus. T—No great value.
 Willamette. Jap. White. T—Little value.
 William Bealby. Pom. Rosy mauve. T—Little value.
 William Clark. Jap. Golden salmon, shaded claret rose. T—Little value.
 William Cobbett. Jap. Rosy salmon. T—Little value.
 William Dewar. Jap. Light pink and buff. T—No value.
 William Elliott. Ref. Similar to John Thorpe; A—Exhibition flower.
 William Falconer. Sing. Deep red pink. T—No value; A—Exhibition flower.
 William Joyce. Jap. Bluish red. T—No value.
 William M. Singlerly. Jap. Rich dark plum. T—Fine for specimen flowers; A—Exhibition.
 William Neville. Ref. Deep orange, suffused red. T—Little value.
 William Robinson. Jap. Orange, tinted rose. T—Little value.
 William Stevens. Jap. Bronze red. T—Little value.
 Willie. Inc. Light rose. T—No value.
 W. H. Lincoln. Jap. Deep yellow. T—Good for all purposes, extremely valuable; C—One of the best all round yellows, Good for pots or cutting, good constitution; A—All round flower; H—Fine for all purposes.
 W. K. Harris. Jap. Nankin yellow. T—Little value; A—All round variety; H—Poor grower, should be dropped.
 W. K. Woodcock. Jap. Rosy purple. T—Little merit.
 Wootton. Inc. Pure white. T—Little value.
 W. W. Coles. Jap. Bright terra cotta. T—Should be retained for its color; C—Immense flower, distinct color; A—All round variety; H—Exhibition plant or cut flowers.
 Xantippe. Anem. Pure white. T—No value.
 Xerxes. Ref. Rich Indian red. T—Little value.
 Yeddo. Jap. Deep yellow. T—Superseded; A—Going out.
 Yellow Bird. Jap. Light yellow. T—No value.
 Yellow Dragon. Jap. (Syn. Golden Dragon).
 Yellow Drop. Pom. Pure yellow. T—Little value.
 Yellow Eagle. Jap. Yellow. T—Superseded.
 Yonitza. Jap. Greenish white, late. T—Superb Chinese for exhibition; A—Good.
 Zago Tee. Sing. Dark pink. T—No value.
 Zanghar. Jap. Clear yellow. T—No value.
 Zenobia. Jap. White. T—Superseded.
 Zephyr. Sing. Straw. T—No value.
 Zillah. Ref. Chrome yellow and orange. T—No value.

At This Year's Exhibitions.

Of the varieties introduced previous to 1892 the following were conspicuous at the recent exhibitions. Those indicated by an * are fine for specimen plants, while

all are good for single flowers in 5, 6 and 7-inch pots.

JOHN THORPE.

Alcazar,
 Anna J. Sprague,
 Auriole,
 Comte de Germiny,
 *Cullingfordii,
 Cyclone,
 E. Audiguier,
 *E. Asmus,
 *Eda Prass,
 *Elmer D. Smith,
 *E. G. Hill,
 Emma Dornier,
 *Etoile de Lyon,
 Excellent,
 Flora Hill,
 Flora McDonald,
 Frank Thomson,
 G. F. Moseman,
 *Grandiflorum,
 *H. E. Widener,
 *Ivory,
 *J. C. Vaughan,
 *John Thorpe,
 L. Canning,
 *Louis Bochmer,
 Mattie C. Stewart,
 *Mermaid,
 *Miss Mary Wheeler,
 *Miss Minnie Wanamaker,
 Molly Bawn,
 Mr. H. Cannell,
 Mrs. A. Carnegie,
 *Mrs. E. W. Clark,
 *Mrs. Irving Clark,
 Mrs. J. T. Eulen,
 Mrs. Oliver Loughton,
 *Mrs. Wm. Bowen,
 President Arthur,
 *Princess Beatrice (Chinese),
 R. Maitre,
 *Roballion,
 Stansstead White,
 Sylphide,
 T. C. Price,
 *V. H. Hallock,
 *Violet Rose,
 *Waban,
 *W. H. Lincoln,
 Yeddo,

INTRODUCTIONS OF 1892.

These were conspicuous at the recent exhibitions and are all first class. Those marked with an * will make fine specimen plants.

JOHN THORPE.

*C. B. Whitnall,
 Col. W. B. Smith,
 Edward Hatch,
 *E. Hitzeroth,
 Exquisite,
 F. Schuyler Mathews,
 *George W. Childs,
 *Harry Balsley,
 *Harry May,
 H. F. Spaulding,
 Incandescent,
 John H. Taylor (early),
 King's Daughter,
 Lilian Russell,
 Maud Dean,
 Miss Heylett,
 *Mrs. A. J. Drexel,
 Mrs. F. Schuchardt,
 *Mrs. Gov. Fifer,
 *Mrs. Henry Phipps, Jr.,
 Mrs. Hicks Lord,
 *Mrs. Jerome Jones,
 *Mrs. L. C. Madeira,
 Mrs. Maria Simpson,
 Mrs. Robt. Craig,
 O. P. Bassett,
 *Roslyn,
 *Volcano,
 *Zambesi (specimen only).

NOTE:—For varieties shown this year for the first time see exhibition reports.

Chrysanthemum Show.

Philadelphia.

[CONTINUED.]

There were four decorated dinner tables entered by Messrs. Pennock Bros., Hugh Graham, John Westcott and J. Kift & Son. Pennock's, which received first prize, had a center vase of orchids raised on a mirrored base, each end of which was covered with a mound of Bride roses. The sides were crescents of Mermets and orchids. Two clover leaves of Mermets and white hyacinths formed half centers at each end of the table. Crescents of adiantums and white hyacinths with sprays of flowers falling over the edge were used as corner pieces. The favors were clusters of Ada Spaulding chrysanthemums. The whole effect was very pretty.

Kift's table, which received second prize, had a long low basket extending the whole length down the center, made of white chrysanthemums, and filled with Cusin roses, on the handle, which was wrapped with pink ribbon, was a large cluster of orchids. Baskets of Source d'Or chrysanthemums falling over the edge formed corner pieces. The favors were of Cusin roses and orchids.

Graham's table, which took third prize, was prettily arranged with chrysanthemums, white and yellow. Three round plateaus of his new yellow, Mrs. Craig Lippincott, connected with narrow baskets of Ivory, formed the center. Sprays of Cissus discolor and pink and white carnations were also used, while gold cord was strung among the flowers, seemingly holding them together. The favors were one flower of the large yellow chrysanthemum. This was a very pretty table.

Westcott used a scroll design of white chrysanthemums, carnations and roses, the center being a basket of La France.

Schaffer's Thanksgiving design was a pumpkin hollowed out, filled with chrysanthemums and hung from a tripod covered with smilax. He also exhibited two funeral designs. One called "Linked Wreaths" was composed of two wreaths, one of violets and the other of chrysanthemums, linked together. The other was an upright frame composed of white flowers with star of same on top and the center hung with smilax; this was called "Beyond the Veil."

Very pretty window boxes of chrysanthemums were exhibited, as were also some huge plateaus of the same. K.

Boston.

[CONTINUED.]

Election and the chrysanthemum show have furnished material enough to keep everybody interested during the past week, consequently little complaint is heard regarding the general deadness which prevails in the flower trade. But the truth is, there is very little doing and the quantity of stock coming in is far in excess of the demand. This applies to chrysanthemums, roses, carnations, etc., but not to violets. Violets continue scarce, and good ones when obtainable command \$1 per 100 at sight. A fair supply of callas is beginning to appear and these, too, sell readily at \$12 per 100.

The chrysanthemum show was in all respects a success. The seedlings obtaining first premiums and noted as unnamed in our former report have been named as follows: Best pink exhibited by J. Eaton, Jr., "Carrie Bell," best white, by John

Simpkins, Jas. Brydon, gardener, "Snowflake;" best "any other color," by J. Eaton, Jr., "Clarence." Certificates of merit were awarded to John Simpkins for Snowflake, to E. G. Hill & Co. for Mand Dean, to Geo. Hollis for Silver Cloud, to Nathan Smith & Sons for Miles A. Wheeler, to J. Eaton, Jr., for Clarence, to C. D. Kingman for Nemasket, to Pitcher & Manda for Mrs. F. L. Ames, and to A. W. Fewkes for a handsome yellow. Honorable mention was given to N. F. Comley for Mrs. Norris Comley, to Geo. B. Gill for Oxblood, and to Nathan Smith & Sons, T. D. Hatfield and Pitcher & Manda for a collection of seedlings each.

On the second day R. T. Lombard staged a fine display of carnations in 25 named varieties. Wm. Nicholson showed three new ones raised by Sewall Fisher, Ada Byron, deep pink; Nicholson, bright rose; and No. 50, white, and received honorable mention for them. Honorable mention was also given to Martin Cummings for white seedling Gov. Russell. John Burton's new rose American Belle was honored with a silver medal.

It is worthy of remark that while chrysanthemums, both plants and cut flowers, seemed to keep much better in Madison Square Garden than in Boston Horticultural Hall, carnations on the contrary kept in splendid condition in Horticultural Hall, but in Madison Square Garden would not last overnight.

Ten visitors from Boston to the New York show. Only one from New York to the Boston show. This is hardly a fair exchange.

Chicago.

[CONTINUED.]

The attendance at the show was very large each day, and there seems reason to believe that such exhibitions will be still more largely patronized in future. The increased entrance fee, fifty cents, instead of twenty-five, as last year, did not lessen the attendance in any degree, plainly proving that the class of people who go to a flower show will go in any case, price of entry making little difference.

The judges of plants and cut flowers, were J. T. Temple, Davenport, Iowa, Alex. Reed, Chicago, Ill., and J. Lewis, Oshkosh, Wis. Seedlings and new chrysanthemums were judged by John Thorpe. The floral arrangements were judged by a committee of ladies.

Among the exhibits which were not for competition a collection of plants and cut flowers shown by E. Wienhoeber must not be omitted; it was a charming group, most attractively arranged, and was constantly surrounded by admirers. Among the cut flowers there were some of the finest La France in the whole exhibition.

SEEDLINGS.

The exhibit of seedlings, which formed the chief attraction on the second day, was of great interest, the display calling out some extremely fine blooms.

The Periam prize for the best seedling, never before shown, went to Nathan Smith & Son, Adrian, Mich., for their grand new white Niveus. It is an immense globular flower, creamy white, irregularly incurved, the outer rows of petals slightly reflexed. The stem is stiff and the foliage good and abundant. It is not a bit too much to call the flower magnificent; that it is one of the most valuable of the year no one can doubt, and its success wherever exhibited shows the estimation in which it is held. This

flower also received the Thorpe prize, a marble clock, offered for the best variety of all, in any seedling class.

In the class of best seedling white, the prize was awarded to E. G. Hill & Co., Richmond, Ind., for G. W. Newitt, a big reflexed white—a handsome flower. For best pink seedling the same firm was the winner, with W. N. Rudd, a very beautiful flower, suggestive of Viviani-Morel with a slight twist to the petals. Color clear rose pink, somewhat lighter on the under side of the petals. This flower gives promise of great value, both for trade and exhibition purposes—one of the most promising pinks of the year.

For best yellow no premium was awarded. For best red or bronze prize was awarded to E. G. Hill & Co., for variety called George, a large flower light Indian red, long reflexed petals, whorled center. Very full petalled, late bloomer, promises well for a big exhibition flower.

Among other interesting seedlings was a white one of Nathan Smith & Son's having notched petals suggestive of an improved Elksborn; Copper Bronze, E. G. Hill & Co., a strong, very double flower slightly incurved, fine copper color; Cyclone, a wildly incurved creamy white ball, E. G. Hill & Co.; Pres. W. R. Smith, from the same grower, fine clear pale pink. Bennie was offered by Hill in the yellow class, but was disqualified, being freely striped with bright red on the inside of the petals; a very large and showy flower. Some other seedlings numbered, but not named, were of varying degrees of merit, some extremely good.

FLORAL DECORATIONS.

The opening day there were no competing classes in this department, but one arrangement, not for competition, was shown by I. C. Siliman. It was a square table, covered with a cloth made of ivy leaves, fringed with chrysanthemum flowers, and having a design on the corners of the table worked in Roman hyacinths and chrysanthemums. A book made of white and yellow chrysanthemums and carnations, with a decoration of Gontiers, was on the table, and also a vase of chrysanthemums, holding a bunch of the same flower. The arrangement was worked out with skill and was attractive.

The mantel decorations on the second day did not call out much competition. First prize went to J. T. Anthony. The decoration consisted of a graceful grouping of palms at sides and bottom, with a sloping irregular band of yellow chrysanthemums across the center; asparagus was draped across the top. The foliage effect predominated.

The second prize mantel was carried out in orchids, some very good material appearing in it. Small palms, with a lower draping of grevillea and ivy, ran across the top; the shelf proper was covered with cattleyas, some odontoglossums and stanhoopes being also used. Below, in the center, was a red bouvardia and a good variegated pinapple, palms being used at either end.

The same day there was a display of baskets, any style. First prize went to Albert Fuchs, for a basket of Sunset and La France roses; second went for a basket of pansies. There were some handsome baskets of chrysanthemums, one of yellow, with ferns, arranged in a white celluloid basket, and another artistic combination of bronze, orange and yellow chrysanthemums, grouped with autumn leaves, a large orange sash draped around it. There was also a big umbrella of chrysanthemums, which no one thought of taking seriously.

On the third day the first prize for a basket of roses went to C. A. Samuelson for a round flat basket, with high square handle, filled with most beautiful Meteors. They were well arranged with adiantum, and the flowers were of fine quality. The value of the Meteor as a summer rose is only gradually becoming known, and this basket was a revelation to a good many growers. The second prize fell to J. T. Anthony, for a very pretty basket of Mme. Pierre Guillot.

The great feature in the floral arrangements was the table decoration, and the display was of great interest. There were five entries, all showing merit. The first prize was readily decided, the winner being unquestionably superior, but the second and third were very close in competition.

The first prize went to J. T. Anthony, his table being pre-eminent in quality of flowers, as well as beauty of arrangement. It was a long table, with an oval central plateau of *Cypripedium insigne* and adiantum. A delicate tracery of asparagus was laid on the cloth, and the favors were cypripediums, with one or two of their own leaves and a bit of fern, tied together with dull green ribbon. At each cover was a ficus leaf, having the guest's name written on it in gold. The display of silver, glass and china was kept within bounds, the idea being to make the flowers the first object, and the result was sufficient to attract attention anywhere. F. F. Benthey was the decorator.

The second prize went to C. A. Samuelson, for a large round table decorated with American Beauties. The roses were arranged in a mound in the center with adiantum; they showed one noticeable defect—the roses were entirely too high. Had the mound of roses been wider and lower the appearance would have been greatly improved. Bunches of Beauties formed the favors.

The third prize went to H. F. Halle for a bride's table. It was circular, having a round center piece of Bride roses and adiantum, surrounded by radiating clusters of lily of the valley. It was extremely dainty.

Another table which was very greatly admired was an arrangement of La France roses. It had a center plateau of the roses, arranged with Adiantum Farleyense; delicate vases of La France stood at either end, and the favors were of the same flower. China, lamp shades and other accessories were of the same tint. This was arranged by W. J. Smyth and was worthy of high commendation. The fifth table was decorated with violets; it is rather singular that there was not a chrysanthemum decoration among them.

A distinguished visitor, arriving the second day of the show, was John Burton's American Belle. There was much curiosity in the trade regarding this sport from Beauty and a strong desire to compare the two. The Belles were arranged with adjacent Beauties, and the criticism was certainly in favor of the new rose. Its perfect freedom from the livid, purplish tint which disfigures the Beauty after it has been cut any length of time seems likely to give it great and permanent value. A special certificate of merit was awarded to the new rose.

The last day of the show there was a fine display of Mme. Crozy cannas from the World's Fair grounds and a display from J. C. Vaughan, including many of the newer sorts, among them Florence Vaughan, which is an unusually attract-

ive variety. These plants made a very showy display.

Among the visitors present during the show were Elmer D. Smith, Adrian, Mich.; J. T. Temple, Davenport, Ia.; J. Lewis, Oshkosh, Wis.; Mr. Bissell, representing E. G. Hill & Co., Richmond, Ind.; W. E. Kemble, Oskaloosa, Ia.; Jas. C. Murray, Peoria, Ill.; H. W. Buckbee, Rockford, Ill.

Cincinnati.

[CONTINUED.]

In the class for best 45 blooms, 3 of a variety, there were three remarkable entries. The collection from Geo. R. Gause & Co., Richmond, Ind., was unquestionably the finest given number of blooms in the show. Among the entries for the best 12, one color in a vase, H. E. Widener was first in yellows; Viviani-Mord, in pink; Ivory, in white; E. G. Hill, in any other. Geo. Gause & Co. were recommended a special award for 12 blooms of Mermaid.

CARNATIONS.

The display of these was not as large as was expected, but the quality of the blooms was par excellent. Mr. Peter Herbe had a great surprise in store for those interested in carnations, he showing flowers in four classes which measured 3½ inches in diameter, Miss A. Kresken, a rich rose pink; Alice Porter, white; Peter Herbe, flaked crimson on a pink ground; Geo. W. Jackson, dark crimson red. Fred Dorner's collection commanded attention, and among his finest were Wm. Scott, Richmond, Spartan, Mrs. Raynolds and Mme. Albertaina. Richard Witterstaetter showed Daybreak, Buttercup, Fred Dorner, Ben Hur and J. R. Freeman in fine shape.

DINING ROOM DECORATIONS.

There was keen competition for the best dining room decoration, including dinner table (12 covers), also mantel decoration; premium \$150 for first, \$50 for second. There were three entries in this class, B. P. Critchell & Co., T. W. Hardesty and Sunderbruch Sons. The awards were made in the order named. Critchell's center table was a rounded mound of yellow chrysanthemums with maidenhair fern and edged with Adiantum cucumern: right in the center was a large bowl containing gold fish, which under the glare of the electric light shone brilliantly; the favors consisted of two Grandiflorum chrysanthemums tied with old gold ribbon, which fell in long broad streamers nearly to the floor. The dinner service, as was the case in the other exhibits, was simply elegant. Mr. Hardesty's mantel was an artistic piece of work, well deserving the praise bestowed upon it. The four-way cross on Mr. Sunderbruch's table was composed of close fitting pink roses with leafage, with a center ring of blue violets, inside of this a diadem of lily of the valley. These three exhibits furnished admirable studies for the many florists present and was the object of admiring interest by visitors.

ROSES.

Roses were splendidly shown by Nanz & Neuner of Louisville, Ky., who were first with Albany, Mme. Pierre Guillot, Meteor and white La France; Fred Walz, with Marechal Niel, Cornelia Cook and Niphetos; Mrs. E. A. McFadden, with Bride, Cusin and Watteville; Sunderbruch Bros., with W. P. Bennett and Mme. Hoste; Julius Peterson, with Perle, Mermet and Waban; C. L. Mitchell, with Papa Gontier. These second and third

premium awards are omitted for want of space. All the entries were of a high order of excellence, and the firsts were closely followed by those receiving the second and third awards.

Mr. John Burton won the special premium with his sport from American Beauty, which he has named American Belle; this rose was viewed critically by the many professional men present, the major portion commanding it for its bright lively rose pink color. Walter Coles' fine exhibit arrived just as the judges were closing their labors; he showed Mme. Testout in fine condition, which attracted much attention.

The management is to be congratulated on the perfect working of the show in all its departments; particularly noticeable was the very manifest desire to deal impartially and in equity with all exhibitors. Uncle John and Elijah Wood scored a great success as judges.

AWARDS—ROSES.

Best 12 American Beauty—1st, \$18, A. Sunderbruch & Sons; 2d, \$10, Mrs. E. A. McFadden. Best 12 Duchess of Albany—1st, \$6, Nanz & Neuner; 2d, \$4, A. Sunderbruch & Sons. Best 12 Marechal Niel—1st, \$6, Fred S. Walz. 12 Cornelia Cook—1st, \$6, Fred S. Walz. Best 12 Bride—1st, Mrs. E. A. McFadden; 2d, \$3, Huntsman Floral Co. Best 12 La France—1st, \$5, Nanz & Neuner; 2d, \$3, A. Sunderbruch & Sons. 12 Catherine Mermet—1st, \$5, J. A. Peterson; 2d, \$4, Mrs. E. A. McFadden. 12 W. P. Bennett—1st, \$5, A. Sunderbruch & Sons; 2d, \$3, B. P. Critchell & Co. 12 Mme. Hoste—1st, \$5, A. Sunderbruch & Sons; 2d, \$2, B. P. Critchell & Co. 12 Papa Gontier—1st, \$5, Chas. E. Mitchell; 2d, \$3, A. Sunderbruch & Sons. 12 Perles des Jardins—1st, \$5, J. A. Peterson; 2d, \$3, Nanz & Neuner. 12 Niphetos—1st, \$5, Fred S. Walz; 2d, \$3, Nanz & Neuner. 12 Mme. Cusin—1st, \$5, Mrs. E. A. McFadden. 12 Mme. de Watteville—1st, \$5, Mrs. E. A. McFadden; 2d, \$3, B. P. Critchell & Co. 12 Souv. de Wootton—2d, B. P. Critchell. 12 Mme. Pierre Guillot—1st, \$5, Nanz & Neuner; 2d, \$3, Huntsman Floral Co. Best 6 blooms new rose (not yet in commerce)—1st, \$10, John Burton, for American Belle.

CARNATIONS.

Best 10 vases, 10 varieties (12 blooms each)—1st, \$10, R. Witterstaetter. Best vase white, 50 blooms—1st, \$5, R. Witterstaetter. Best vase pink, 50 blooms—1st, \$5, Fred Dorner; 2d, \$3, R. Witterstaetter.

New carnations not yet in commerce:

Best vase pink (6 blooms)—1st, certificate and \$5, A. Sunderbruch & Sons. Best vase red (6 blooms)—1st, certificate and \$5, Fred Dorner. Best vase any other color (6 blooms)—1st, certificate and \$5, Fred Dorner.

Messrs. Thorpe and Wood scored a great success as judges. The following, from the Cincinnati *Enquirer*, tells how they did their work:

"The judges were, Mr. John Thorpe, who is Chief of the Horticultural Bureau of the World's Fair, and Mr. E. A. Wood, of Boston, Mass. Both of these gentlemen are chrysanthemum experts of national reputation. It takes just as much wisdom to judge a chrysanthemum as to judge a horse, and chrysanthemum judges go about their business in much the same manner as judges of horses. When the two gentlemen approached a flower they didn't talk about beauty. Mr. Thorpe chewed his toothpick and said: 'Good foliage.' Mr. Wood puffed his cigarette and remarked: 'Little weak in the neck.' Then Mr. Thorpe gravely squeezed the flower and Mr. Wood checked it under the chin and looked professional. Then they went on to the next one after jotting down something in their note books

Buffalo.

Our chrysanthemum show opened on the 10th with two inches of snow in the streets and thermometer at freezing point, but nevertheless we all managed to get the stuff there in good order. As usual, the attendance was light on the first day. The exhibition surpasses anything that was ever seen in Buffalo and is so far superior to any previous efforts that you would scarcely realize that it is the same old Buffalo chrysanthemum show.

The feature of the show is the cut blooms, which from all accounts, are equal in quality, if lacking in quantity, to Madison Square. Nathan Smith is here with a grand exhibit of flowers of '91 and '92. Among his best flowers are the following: Mrs. L. C. Madeira, Frank Thompson, Mrs. R. Craig, Gognac, Emma Hitzeroth, Ed. Hatch, Harry Balsey (the best pink in the show), G. W. Childs and Col. W. B. Smith. Pitcher & Manda sent a fine lot of flowers (not for competition); the most noticeable among them were Geo. Vair (a magnificent pink), Mrs. Walter Cutting, Mrs. F. L. Ames, Mrs. Henry Graves, Master of the Garden and a variety without name, No. 404, a grand pink of the hairy type. Among their older varieties which stood out grand for their beauty were Harry May, Lizzie Cartledge, Alcazar, W. S. Kimball, Connecticut, Shenandoah, Mrs. E. D. Adams, Mrs. Cornelius Vanderbilt, Mrs. Meredith. Pitcher & Manda also sent, under the care of their valuable assistant, Mr. Harry Bunyard, a grand specimen of how a standard chrysanthemum should be grown; it was Hicks Arnold and arrived in perfect condition.

The largest exhibitor from out of town is Grove P. Rawson of Elmira, and his blooms were unsurpassed by any exhibitor; as the premium list will show, he came out ahead, and many of his flowers were phenomenal; above all was the extraordinary quality of his Kiotos; other flowers among his exhibits were T. C. Price, E. G. Hill, G. P. Rawson, Mrs. I. Clark, Wm. Falconer, W. H. Lincoln. Salter Bros. of Rochester exhibited a magnificent vase of Mrs. Rundle, a variety 60 years old and yet admired beyond many of the monstrosities of to-day.

Local growers came out in great style and showed blooms equal to any of those shown by the celebrated growers from outside. The show of standards was something new to Buffalo, 60 specimens being exhibited, and they attracted great attention.

The exhibits of stove and greenhouse plants were really fine, as was also, for this time of year, the show of flowering plants. There are three collections of dracaenas shown, 12 in each, and it is the opinion of many good judges that no finer collections were ever exhibited for competition in this state.

The bush plants of chrysanthemums have taken a great stride in Buffalo, and with a few exceptions, are most creditable, large plants, few stakes and small pots being the rule.

On the second day the designs were exhibited and therein I think we hold our own. I would like to defer the awards of premiums to your next issue, as I can then give them complete with other items of interest, and conclude by mentioning a few items in brief.

Peter Crowe of Utica was the judge of plants and cut "mums," Phil Breitmeyer of Detroit on designs. Both did their duty fearlessly and well, except Mr. Crowe, who on the conclusion of his de-

cisions had a large Ada Spaulding thrown at his head.

Wm. Scott's 25 single stems, limited to 6-inch pots, were pronounced equal, if not superior, to those shown at Madison Square by numbers of ladies who saw the great New York show. They say: "If not as large, you have a more delightful display and quite as good flowers."

Professor Cowell's seedling, named by the Artist Club (Bohemian sketch club), was a great affair and the flower is worthy of the honor bestowed on it.

Visitors from out of town were numerous. Among them were Messrs. Salter, Vick, Hill, Fey, Bard, Swift, Bishop, Pridmore and Thallman, all from Rochester; Mr. and Mrs. Mansfield and C. L. Dole, from Lockport; Mr. and Mrs. P. Breitmeyer, of Detroit; Mrs. Rockwell, of Bradford, Pa.; Mrs. Wells of Elmira, N. Y.; and many others, all of which was very gratifying to the local club.

Conclusion: Chrysanthemum shows are a luxury and can only be indulged in by the wealthy florists. G. S.

Providence.

The R. I. Horticultural Society closed a very enjoyable and instructive exhibition on the 11th inst. An immense collection was gathered in Infantry Hall, the largest in the city, with a floor space of about 8,000 square feet, which was filled with flowers of all styles and colors. More than 1,500 plants were exhibited, aside from a large variety of cut blooms. James Andrews was the largest exhibitor, he having about 400 pots; other large exhibitors were Robert Johnston, Chas. Fulford, F. Macrea, Collamore & Hazard, William Hay, from the commercial florists, and from private greenhouses the three Goddard Bros.—R. H. I., T. P. I. and M. B. I., and Mrs. T. P. Shepard.

Robert Johnston exhibited a new trained standard, standing eight feet high, a seedling of his own raising, 1891, also trained specimen of Lilian Bird, Wm. H. Lincoln and P. A. Collins, also a new white one, Margaret Graham. James Andrews exhibited a new seedling of his own production which he has named Grove Cleveland 1892. The bloom is a variegated pink and white and the plant exhibited has 29 blooms. He also exhibited a fine specimen Cloth of Gold, also Richard Pierce, a seedling having terra cotta quilled petals, full oval with no center button. This plant is a good keeper, having been in bloom for three weeks and with every appearance of a longer lease of life yet to come.

Charles Porter, gardener for Col. R. H. I. Goddard, exhibited a very fine specimen of Viviani-Morel, a beautiful tinted pink bloom for which was awarded first premium for specimen plant. Alfred Powell exhibited for T. P. I. Goddard Mrs. Beale.

Beautiful displays of cut blooms from Mrs. T. P. Shepard, T. P. I. Goddard, R. H. I. Goddard and M. B. I. Goddard, also Messrs. Pitcher & Manda, of Short Hills, N. J., were made. Other exhibitors showed specimens of roses, pinks and other blooms.

Butler Asylum, Charles Forbes gardener, made a fine display of tropical plants, ferns and other foliage plants, to gather with chrysanthemums. Wm. A. Appleton had a fine collection of "rubbers" which evidenced skillful culture.

A very fine floral memorial piece in memory of Alden B. Knapp, a life long member of the society, occupied a conspicuous place in the exhibition. A floral design was exhibited by Collamore & Hazard, representing an easel with artist materials resting upon.

During the evenings the National Band discoursed fine music, and although a stiff northeast storm was prevailing many visitors were present. The hall was lighted by electricity and the effect was superb, lending brilliancy and beauty to the whole scene. S.

Montreal.

Bad luck, so far as the weather is concerned, seems to follow the club's shows here. With the mercury at 20°, moving plants is anything but a nice job, particularly large "mums." Such was the state of the weather here on Wednesday, the opening day, and consequently the exhibits were late in arriving. Thursday, when we expected the crowd, we had a snow storm all day, and though the attendance was better than ever before, still it fell short of expectation, so that our show cannot be called a success financially.

As an exhibition, however, it was a long way in advance of last year's as regards quality of flowers. More large palms had been used to advantage among the group of "mums," however, as there was too much color and a bit of green foliage would have toned it down.

G. Copeland was first for 12 plants with a dozen first rate ones, the best ever seen on exhibition here. He also was first for display on 50 feet space and for 24 blooms; the latter would have been a credit to him on any table. The varieties were Domination. Geo. Savage, Mrs. A. Hardy, (very fine), John Dyer, Lady Margaret, Harry May, G. F. Moseman, Mrs. Dr. Mandeville, L. B. Bird, Mrs. J. N. Girard, Mrs. E. D. Adams, Louis Bochner, La Triumphant, Mrs. Mercer, W. S. Kimball, Mrs. Irving Clark (extra fine), Madame Audiguer, Ada Spaulding, Mrs. Libbie Allen (very fine), H. E. Widener, Mr. H. Cannell, W. H. Lincoln, (superb flower), Annie Manda and Claude Billiard. J. Bland, who ran Copeland very close for first place, had among his 24 Violet Rose, T. C. Price, Comte de Germigny, Mrs. Grace Hill, Mrs. Langtry and several others, very fine flowers; three or four of his blooms were a little past their best and so lost him a few points; he says, however, he will "go for them" next year.

The 12 plants taking the silver cup were Flora Piercy, L'Isle de Plaisir, Charlotte de Montebargy, Tokio, Mme. Barry, Gloriosa, L'Ebouriffé, La Triumphant, Sunflower, Mme. Bernard, E. Molyneux and an unnamed pink.

A fine lot of flowers were staged by Pitcher & Manda for exhibition only, the cream being Mrs. F. L. Ames (the new yellow—awarded a certificate of merit), Mrs. D. L. Farson, Miss Meredith, Sec'y Farson, Ramona, Mrs. C. Vanderbilt, Master of the Garden, Mrs. Hicks Arnold, Grandiflorum, Harry May, E. G. Hill and others. These flowers came through in fine condition and attracted much notice.

In addition to Mr. Copeland, the following won first premiums in the chrysanthemum plant classes: J. Kirkwood, W. J. Horsman, J. Stanford, C. Smith.

In chrysanthemum cut blooms the winners of first premiums were G. Copeland, J. Bland, T. McHugh and J. Stanford.

In miscellaneous plants first prizes were taken by J. Walsh, B. T. Baud, J. Bland and W. Wishe.

In cut roses and carnations first went to J. Bland, J. Doyle and P. McKenna.

A lot of seedling chrysanthemums from Nathan Smith & Son, Adrian, Mich.,

were too much wilted to be able to form a correct opinion of their merits.

The judges were H. Bryant, St. Albans, Vt., "mums" in pots; Geo. Robinson, miscellaneous plants; and for cut flowers, C. Scrim, Ottawa, J. Kirkwood and C. Smith. B.

St. Louis.

The third annual banquet to florists, nurserymen and market gardeners, as prescribed in the will of the late Henry Shaw, was given Nov. seventh in the large assembly room of the Mercantile Club. The tables were arranged in the form of a large E, on which were laid covers for ninety guests.

The room was decorated with palms, specimen chrysanthemums, and other plants. The chandeliers were decorated with smilax. The table pieces were low and tastily arranged, being composed largely of roses with a few chrysanthemums and Roman hyacinths. The piece in front of the chairman and toast master, Dr. Wm. Trelease, while simple in design was very fine and owed its charm principally to airy sprays of several species of orchids. Near the side of this piece, furthest from the chairman, stood a magnificent plant of *Vanda Sanderiana* bearing a large truss of its beautiful flowers. One of the pillars was decorated with pitchers from twelve species of nepenthes. The decorations were furnished by Ostertag Brothers who have since taken first prize at the chrysanthemum show for best table decoration for a dinner party.

After an elaborate dinner toasts were proposed by Dr. Trelease and responded to as follows: "Henry Shaw," by Henry C. Haarstick; "moreover, he hath left you all his Walkes, his priuete Arbors and new-planted Orchards," "The Columbian Exposition," by J. K. Gwynn; "like Adonis' gardens, that one day bloomed and fruitful were the next," "The market garden," by Henry Ude; "mushrooms and many millions of other plants, more rare, more strange than these," "Horticulture," by J. C. Duffey; "the art of planting fifty trees on a quarter of an acre of ground, and bringing them into a fruitful state in four or five years," "Our park system," by John P. Fechter; "make the public parks or pleasure grounds attractive, and you draw the whole moving population of the town there," "The florist," by Charles Connon; "how noiseless falls the foot of time, that only treads on flowers," "The Scientist," by Henry S. Pritchett; "An astronomer rapt in abstraction while he gazes on a star."

At the close of his speech Mr. Connon requested that permission be given Mr. E. H. Michel to make a communication on behalf of the members of the St. Louis Florist Club. Dr. Trelease readily granted this request, when Mr. Michel stated in a brief and well worded speech that the members of the club, wishing to show their appreciation of the valuable aid that Dr. Trelease had rendered the florists in many ways and especially in so ably laying before the S. A. F., the many good reasons why that society should hold its next meeting in this city, had authorized him to present to Dr. Trelease a small package, which he forthwith produced and handed to the doctor. The package contained a handsome non-magnetic Geneva gold watch with appropriate inscription and monogram of the recipient thereon.

The chrysanthemum show opened the evening of the eighth. The large music

hall of the exposition building was well filled with large plants. There was a full house the first evening. The florists have exerted every effort to make the show a success, and the result is highly satisfactory. The people of this city have never before seen such beautiful plants of this favorite flower. The arrangement is much better than last year and there is a marked improvement in the specimen plants of all styles.

A number of very good seedlings were on exhibition. The palms and decorative plant are very fine, while the other classes of plants on exhibition are models of their kind.

The table decorations show a high degree of skill and taste. None of the centre pieces are of such a nature as to obscure the view across the table.

It would take too much space to give the name of the winner of each of the more than 200 prizes offered. Suffice it to say that no prize was unmerited, there being plenty of competition, and no poor plants having been entered.

These shows are great educators and increase the demand for good plants and flowers and for tastily executed decorations. May the St. Louis Florist Club ever continue to give such exhibits, and may each be better than the last.

J. C. DUFFEY.

New York.

There is very little to be said that is encouraging regarding the cut flower trade in New York. There is far too much stock coming in at present and large quantities of roses, carnations and chrysanthemums are either lost outright or are disposed of for a trifling sum. The only bright spot for the growers is the demand for violets. But these are scarce and those of really good quality are in the hands of but few. The retailers seem to be generally satisfied with fall trade. They have been able to buy at their own figures a large portion of the time and have nothing to find fault with.

The recent chrysanthemum show is still a fruitful theme of conversation. The attendance on Sunday was a disappointment, it being only about one-third of what it was on Sunday last year. The lack of a special musical attraction, such as was provided last year, is regarded as the main cause. The show was patronized by the best people in the city and all the daily papers gave it great prominence in their columns, after the close speaking in the highest terms of its excellence and expressing pleasure that an annual chrysanthemum show was to become one of the fixed attractions of the city.

There has been an unusual amount of dissatisfaction with the results of the judging this year among the exhibitors. Much of the occasion for fault finding can be obviated by a careful revision of the exhibition rules and requirements of the schedule so that no opportunity for misconstruction on the part of exhibitors or judges can possibly occur.

The greatest attendance at the show was on Saturday, when the special attraction was the dinner tables, baskets and big vases of chrysanthemums. On this day also many of the premiums of the earlier days were duplicated and a large display of fresh chrysanthemums, carnations, roses and violets was the result. Dailledouze Bros., E. Koffman, J. H. Taylor and Ernst Asmus took most of the big chrysanthemum premiums as before, J. L. Powell receiving first prize for vase any color. Ernst Asmus, J. H. Taylor, J. N. May, F. R. Pierson Co. and

W. H. Young had things pretty much their own way in the rose contest.

The monthly meeting of the New York Florist Club was held on Monday evening, Nov. 14, at the club room in 27th street. This was the first regular meeting at the new rooms and there was a full attendance. The exhibition committee reported that their work had been completed and that money for premiums would be ready for distribution in a few days. The full amount of cash prizes awarded was \$6,188 and cups, etc., to the value of \$866. On account of informality in Mr. Spaulding's removing the furnishing of his prize dinner table before the close of the exhibition the awards have been revised and first premium has been awarded to Mr. George Stumpff, second to A. Warendoff for table decorations. The special premium offered by J. A. Penman to exhibitor taking largest number of prizes was won by Ernst Asmus.

The officers nominated at the last meeting of the club were unanimously elected. A committee was appointed to arrange for an annual club dinner. \$1 was adopted as the price to members for club room keys and the result of a discussion regarding means of increasing the revenue was a motion to make the annual dues \$6 and initiation fee \$5. This will be acted on at the December meeting. Eleven new names were proposed for membership.

Thomas Gammon, father of Mrs. J. N. May, died at Summit on November 5 of paralysis of the brain.

Correction.

In our report of the New York show in last issue the types made us say that the prize for best white seedling was awarded to "W. S. Waby." It should have read, to Fred S. Walz. The same variety (*The Queen*) won the prize for best white seedling at the Cincinnati show, but in our report the name was given as "White Queen," when it should have read "The Queen."

Philadelphia.

The chrysanthemum supper was held in the lower hall, the tables being spread among the specimen plants. Plateaus of chrysanthemums were placed at intervals in the center of the tables, and lamps with fancy shades helped to enliven the scene. It being the evening of election day, the committee made arrangements to have the returns brought into the hall, and while they were a source of satisfaction to some, to many others they were of such a nature as to interfere with their appetites.

There were not as many visitors as the club would like to have seen. Those present were, Mr. Smith, President of the Society of American Florists, Messrs. Reineman and Watson, of Pittsburgh, Mr. Harry Chaapel, of Williamsport, Mr. Plunt, of New York, and John G. Gardner, Johnston.

As the coffee and cigars were passed round, Mr. Craig rapped for order, and started the ball rolling with a short address. In referring to last year's show he said it was the best to date, but that this one was better, as there were plants on exhibition such as he had never seen before. Let us look back, said he, Grandiflorum was grand, but superseded by others, until in its day, Widener came, which was a great stride forward, and now we have Golden Wedding, an advance on all the others. There have been gains in other directions as well, and the

show is well worth studying. At first there was doubt in the minds of many about the chrysanthemum, they couldn't see a future for it, now all are its devotees. One rose grower had said, "there is no insect smaller than a cow that can hurt those things," but now he has a big lot and has them good. In order to gain we must study, and throw out the old varieties if others are found better. It is as easy to grow Widener and other fine kinds, as it is to grow inferior ones. Raise the standard and prices will go up of their own accord. At one time \$4 a 100 was thought a big price, and later, \$8 was considered very high, now almost any price can be obtained for really fine flowers. He regretted the absence of many who had been with the club on previous occasions.

He proposed as the first toast, "The Chrysanthemum, and Mr. John Thorpe, the father of the flower," and called on Wm. K. Harris to respond. Mr. Harris stated that he was entirely unable to do the subject justice, and was very sorry that Mr. Thorpe was not present to speak for himself, in which thought he was joined by all present. Mr. W. R. Smith responded to the toast, "The Society of American Florists." He said that he felt that he could talk for a week if allowed to, of the Society of American Florists. He felt proud of being president of a society that is doing more for the aesthetic taste than any other society in America. Years ago florists in this country had no standing. Now the American florist is the equal of any man, and all Europe is catering for his trade. They will achieve more glory in the next ten years than ever before, and grow to be bigger men in the estimation of the public. He concluded with the hope that he would have the pleasure of seeing all the company in St. Louis at the convention next summer.

"The Rose" was now toasted, and Mr. Burton in response said that the rose was the greatest of all flowers and queen for all time. He did not object to chrysanthemums, but thought there were too many in the market. He hoped to see the rose society started, as he felt it would do as much for the craft as the S. A. F. had done, and that was a great deal.

"The Carnation Society" was toasted, and Mr. Lonsdale, as president, in reply said that the display was better than any seen here before and that the improvement would go on. He would not make a speech, however, as he thought the company would rather have a song, and called on Mr. McCall, who gave, "You must ask the Man in the Moon."

Mr. John Westcott, as superintendent of the exhibition, was called on, and after referring to the excellence of the show, said it was only ten years old, and that ten years from now the improvement would be so great that a show like this would not be worth mentioning.

Mr. Fancourt sang a song and Mr. David Bairn declared that the committee of arrangements had a very easy time of it, as everything was so systematized there was little for them to do.

Mr. Watson, the originator of the souvenir given to every visitor to the show, was called on and said he believed the souvenir to be a good thing; that it

was an educator and helped to keep up the interest and kept the society before the public, as the books would be carried home and referred to frequently.

"The Madison Garden Show" was replied to by Mr. Plumb, who said that the show here was very fine, but next year the florists in New York were going to put their best foot forward and something grand would result. They had only been practicing so far and next season would go to work in earnest.

"Our Hard-Working Secretary" was now received with much applause. He declared he had never been accused before of being a hard-working man. Everybody else had been apologizing, but he wouldn't. His remarks generally and his description of a hard worked man was in his best vein.

Mr. Ely read a humorous poem and Mr. Craig sang "Father O' Flynn," after which there was a violin solo and other songs.

The party finally adjourned at a late hour with the singing of "Auld Lang Syne," very well satisfied with the evenings enjoyment.

Business has been quiet the past week, but together with the show and the supper the time has been all taken up.

The attendance at the exhibition was very good with the exception of one very stormy day. At times it was so crowded that it was difficult to move about; every one appeared delighted with the display. The souvenir was favorably commented on and seemed to be greatly appreciated. Some 10,000 of them were given away during the week.

On Wednesday night after the close of the show, a few of the boys waited to see Mr. Smith off to Washington. They gathered in the library, and for a couple of hours it reminded one of the supper. Superintendent Westcott is generally prepared for gatherings of this kind, and after refreshments had been passed reminiscences and stories interspersed with songs, were in order. Messrs. Farson, Craig and Battles, were full of the old songs, while John Walker surprised the company with an original and witty creation of his own set to the tune "You must ask of the man in the moon." This was the song of the night and is one of his best efforts. K.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In seed trade; English and American experience. **Cookin,**
68 Dufield Street, Brooklyn, N. Y.

SITUATION WANTED—As stream, water or nursery; experienced and steady; age 32; references. **Address** FIREMAN, Box 316, Minerva, Ohio.

SITUATED WANTED—By a first-class rose grower; American; single; 18 years experience. **Address** ROSE GROWER, American Florist, Chicago.

SITUATION WANTED—By a young man in a florist establishment; has had some experience; well up in growing and handling plants and cut flowers; sober, willing, reliable; single. **Address** A. B. C., General Delivery, Indianapolis, Ind.

SITUATION WANTED—As florist; cut flower grower; speciality; married; foreman in commercial place preferred. **Address** ADOLPH WETTERKAM, Norton Grove, Ill.

SITUATION WANTED—Indian preferred; commercial; has had some experience; well up in growing and handling plants and cut flowers; sober, willing, reliable; single. **Address** A. B. C., General Delivery, Indianapolis, Ind.

SITUATION WANTED—Or partnership, either in store or greenhouses, by a thoroughly practical business florist with large acquaintance and trade. **Neighborhood of Chicago preferred.** **Address** WILLIAMS, care Chicago Floral Co., 28 Grand Boulevard, Chicago.

SITUATION WANTED—As foreman on private place, by practical gardener; experienced in all branches of landscape work, vegetables, greenhouse plants, etc.; age 25; best references. **Neighborhood of Detroit or Eastern States preferred.** **Correspondence invited.** **Address** CARE CHICAGO FLORAL CO., 28 GRAND BOULEVARD, CHICAGO.

WANTED—100 well grown Oxalis Shumrock. **Address** MIES, D. J. KNOX, Billie, Montana.

WANTED AGENTS in the principal towns of the U. S. by an important European seed firm. Write full particulars to **care** RAD. MOSS, Berlin, S. W. Germany.

FOR SALE—Florist's business at a bargain; 5 houses well stocked; best location in city of 1500. **Address** WM. MILLER, Chillumite, Ohio.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1901. **Address** J. C. YATMAN, Box 108, Chicago, Ill.

FOR SALE OR RENT—At a bargain, an old established florist business near St. Paul. Must be disposed of through serious illness. **Address** FLORIST, care American Florist, Chicago.

FOR SALE—Three-fourths (3/4) acre ground, well stocked with small fruit; plant of three green houses, rebuilt last year, well stocked with roses, carnations, and general green house stock. House rooms; barn and other outbuildings. For particulars address **LOCK BOX 22, Washington, Ind.**

FLORIST WITH OLD ESTABLISHED stand in principal market in Philadelphia, desires correspondence with regard to consignments of Holly, etc., etc., for Holiday sale. **W. G. BIRK AND BROS., Terminal Market, Philadelphia, Pa.**

FOR SALE.

A N OLD ESTABLISHED FLORIST BUSINESS at Dorchester, Mass., comprising 20,000 feet of land centrally located, on which are:

- 1 House 70x18 filled with Carnations.
 - 1 House 70x16 filled with Roses.
 - 1 House 70x11 filled with Violets.
 - 1 House 70x10 filled with Violets.
 - 1 Sash Pit 70x7 filled with Violets.
 - 1 Dwelling House, seven rooms.
- Plants in good condition and houses in good repair. Price, \$6,000.

Address

N. F. MCCARTHY & CO.,

1 Music Hall Place, BOSTON, MASS.

CARNATIONS, FIELD GROWN.

GOLDEN & TRIUMPH, and other varieties. Send for list with prices. A few hundred second size plants of Golden Triumph at a reasonable price.

B. T. LOMBARD, Wayland, Mass.

CARNATIONS

Strong, healthy, field grown plants.

PURITAN The best white. Early, productive and healthy. 1st size, \$1.00 per 100; 2nd size, \$1.00 per 100; 3rd size, \$1.00 per 100.

Hybrid Perpetual Roses.

Strong, field grown plants, \$1.00 per 100.

WOOD BROTHERS, Fishkill, N. Y.

CARNATIONS, Field Grown.

PORTIA, 1st size, fine plants.....\$8.00
" 2nd size, fine plants..... 6.00
GARFIELD, 1st size, fine plants..... 8.00
" 2nd size, fine plants..... 6.00

Carnations stored in cold frames can be shipped at any time.

LAT REUSE HEIN, Terre Haute, Ind.

Carnations Ahead!

The Carnation is rapidly gaining in favor, due largely to the new and improved varieties. To be in the swim, every florist should have the best that is to be obtained. We have a large stock of all the best varieties that have been put upon the market up to date. Have also made arrangements with the growers to list in any varieties of 30, including Grace Brides, Edna Craig, Van Seelt, etc. If interested, send your address, and we will mail you price list as soon as issued.

GEO. HANCOCK, Grand Haven, Mich.

CARNATIONS

FOR 1893.

GRACE BATTLES. Having purchased an interest in Mr. Lonsdale's beautiful pink seedling, orders are solicited for delivery Feb. 15, my own growing.

From my list of the new varieties note the following:

PEARL.—White, with sometimes pink diffused, 3 to 3½ inches across, fine form, fragrant and handsome.
THOS. CARLEEDGE.—Slightly deeper shade than Pearl, with long, erect stems. Bowers full in center of fine form, productive and remarkably quick to come in bloom.

Puritan.—Golden Triumph, Aurora, Nancy Hanks, Grace Darling, Crimson Coronet, Peachblow Coronet, Emily Pierson, Orange Blossom.

I shall make a special run on

ANGELUS.—As a near approach to the ideal in form and habit, of good size, a lively shade of pink, deeper than Wilder without streaks in midwinter.

ESAR.—As the finest variegated variety, very large and full, extremely productive, stems erect, highly recommended for crossing.

DAYBREAK.—Delicate salmon pink, of good habit and constitution.

BUTTERCUP.—As the standard yellow variety.

My annual list will contain full descriptions of the above and over 50 other varieties of my own growing which I shall offer the trade.

Correspondence and personal inspection invited.
C. J. PENNOCK,
The Flues, Kennett Square, Chester Co., Pa.

A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gale** at \$8.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Carleedge	Nancy Hanks
Pearl	Dorner
Golden Triumph	Mrs. Hart
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

10,000 CARNATIONS.

Garfield, Hinz's	Per 100	\$4.00, \$7.00 and \$8.00
ROSIES—Albany, La France, Mernet and Safrano, from 4-inch pots	doz.	6.00
Albany, La France and Wootton, from 2½ inch pots	doz.	3.00
Bride, Mernet, Safrano and Bon Silence, 2-inch pots	doz.	2.50
Apparagus Toussaints, 3½-inch pots	doz.	8.00
Dracena Indivisa, 2½ in. pots	doz.	\$1.00 per doz.
Fern Pleria Serrulata, 3½ in. pots	doz.	\$1.00 a doz.
" " " 2-inch pots	doz.	4.00
Grevillea Robusta, 15 to 18 in. high	doz.	\$2.00 a doz.
Pandanus Urtula, 4-inch pots, strong	doz.	\$5.00 per doz.

NATHAN SMITH & SON,
Adrian, Mich.

ROSE ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.



WANTED YOUNG ROSES

In exchange for Palms, etc. in variety. We will give list, and mail our NEW CATALOGUE to every applicant. "Southernmost Nursery in U. S." Reasoner Bros., Oneida, Fla.

Correspondence wanted with parties desiring a regular supply of

FANCY CARNATIONS, DOUBLE AND SINGLE VIOLETS.
J. THOS. DEWITT,
(Successor to DeWitt Bros.), Bristol, Pa.

ROOTED CUTTINGS.

CARNATIONS.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention.

CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

DRESDEN HYBRID ROSES

Low budded, fine stock, in the following Ten good sorts:

Anna Alexieff, Baroness Rothschild, Mile. Eugene Verdier, Paul Neyron, Marie Bauman, Mme. Gabriel Luizet, Magna Charta, Merveille de Lyon, Gloire Lyonnaise, Ulrich Brunner Fils.

Ten of each to the case. Due in port about the 25th. Eight cases left unsold to-day. Can be secured if ordered promptly, for \$12.00 the case of 100 nice plants, assorted as above. Address

AUGUST ROLKER & SONS, NEW YORK,
136 W. 24th Street, or P. O. Station E.

ROSES.

In Leading Forcing Varieties.
CARNATIONS.

Strong plants from open ground.

EMILY PIERSON, new scarlet......Per 100 \$10.00

After three years' trial, I am satisfied that this is the best scarlet variety I have ever seen, and shall this year grow no other for cut bloom.

HINZE'S WHITE......per 1000 \$60; 7.00
MRS. FISHER......7.00

VIOLETS.

Neapolitan......per 1000 \$70; 8.00
The Russian, single dark blue " 70; 8.00

5,000 ADIANTUMS.

20,000 CHRYSANTHEMUMS,
in 100 leading varieties. Send for list.

A. N. PIERSON, Cromwell, Conn.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

When writing to any of the advertisers on this page please mention THE AMERICAN FLORIST.

GERANIUMS.

Transplanted cuttings of a very choice assortment, every variety a good one. Price per 100 with labels, \$2.50, without, \$2.00.

MISCELLANEOUS STOCK

will be advertised as ready. Watch this space.

10,000 JACK ROSES

1 and 2 years old, on their own roots, well branched.

	PER 100
2 to 2½ feet high	\$ 8.00
2½ to 3½ feet high	10.00
3½ to 4½ feet, extra large for planting out	12.00

Will send sample of 10 on receipt of \$1.00.

Jordan Floral Co.,

706 Olive Street, ST. LOUIS, MO.

KAISERIN AUGUSTA VICTORIA

THE COMING WHITE ROSE.

From 4-inch pots	\$ 5.00 per doz.
" 3-inch pots	35.00 per 100
" 2½-in. pots	25.00 per 100

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS. \$30.00 per 1000
HYBRIDS. 40.00 per 1000
Healthy plants, in 2-inch pots. Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock. Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,

TERRE HAUTE, IND.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.



Seasonable Hints.

Shipping cases should be light to save express charges. Ordinary store boxes of different sizes answer every purpose. The lids should be binged and have some kind of handy fastening. Use small carriage bolts in lieu of screws to fasten these to the box. Locks are not necessary. Whatever we may say about the expressman handling our goods in a rough manner pilfering can not be laid to his door. There is no better lining for the boxes than newspapers for ordinary weather. Tissue or waxed paper should be used as the last inside covering for the sake of appearance. For very cold weather cotton batting is the proper thing to use. It is well to recollect that a box of flowers is more likely to freeze at the bottom, therefore more lining should be placed there than on the sides or top. It is well not to have too much bulk pressing together, so that in large boxes a horizontal partition should be inserted midway. A plan of shipping long stemmed carnations has been suggested to us which we think is a good one. The bunches are laid with stems towards center of box. Two or more strips are binged down the middle of one side which fold over the stems and fasten on the other side. This holds the bunches firmly in place. Several layers are placed in a box according to its depth. The idea can be caught perhaps from this bungling description and improved upon.

In shipping long distances more care must be taken to pack securely. A layer of damp moss should then be used over the bottom, again covering this with paper so that the flowers themselves may be kept dry. Carnation blooms should not come in contact with water at all. They carry better without. If we wish to be more particular the stems may be tied in wet moss. Chip baskets are excellent for forwarding carnations in mild weather; they are light and inexpensive, but are not returned by the express companies. Shipping boxes will be returned free of charge if taken to depot.

It has always been our practice to gather the blooms in the morning before the sun shines upon and softens them. They are then stiff and firm and carry better. If necessary to gather during warm part of day the stems should be placed in water for a while before packing. Some growers adopt this plan for all their cut, gathering a day before shipment and holding in water during interval. This no doubt improves the appearance of the blooms. W. R. SHELMIER, Avondale, Pa.

"Lifting Carnations."

It cannot be expected that we should all think alike or that the same way of lifting carnations would give the same results with all growers. The soil, variety, manner of lifting and transplanting, are all important factors in determining the success or failure of the operation.

In September last, in two days, I lifted and planted 2,850 plants of Mrs. Fisher; the ground was dry and sun warm; there was not a peck of soil on the entire lot

Asparagus Plumosus Nanus.

CUT STRINGS. 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

NILES CENTER FLORAL CO.,

Wholesale Dealers in

Cut Flowers
AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,

In Chicago Cut Flower Exchange.

45 Lake St., CHICAGO.

We are now located at our new quarters in Chicago Cut Flower Exchange, and are prepared to fill orders in very best manner. Give us a trial order and see how we please you.

EDWARD C. HORAN,

34 W. 29th Street, NEW YORK.

Wholesale Florist

Careful Shipping to all parts of the country.
Price list on application.

CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

and yet I only lost two plants and I do not think a finer lot of carnations can be found in New England than these are today. Also a house of Wilders with like treatment and like results.

In lifting my Puritans I found I could not shake off the soil without injury to the roots and planted them with balls of earth; they did not start so readily or so uniformly as the Fishers, yet this may be owing to variety and not treatment.

To my mind the plant must either be lifted or the glass removed from the house while they are making their growth; in growing young plants under glass in June, July and August you cannot get the required conditions to produce a plant with sufficient vitality to make them profitable. This is a theory of mine based upon the nature of the plant.

In discussing this question it will not do to forget that the carnation is *biennial*, half hardy, requiring a period of rest, and makes its largest and best development in a comparatively low temperature and yet it *must* have an abundance of air and sunlight to make it a success. I believe lifting is beneficial to this plant; it is an artificial substitute for nature's intended rest.

We are so constituted by nature that we are apt to think our way the best, and therefore we are more or less biased, and I would advise growers to try new methods on a small scale and adopt that proving well with them.

R. T. LOMBARD.

Wayland, Mass., Nov. 5.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

ATTENTION

Dealers in Florists' Supplies!

Wall space to let for advertising purposes in the

BOSTON FLOWER MARKET.

An opportunity seldom offered to dealers in Seeds, Bulbs, Glass Heating Apparatus, Pots, etc., to advertise their goods.

These advertisements will be seen by 150 prominent florists of Boston and vicinity every day. This is a GROWER'S MARKET, and the grower is the man you depend upon.

ATTENTION!

Retail Florists of Boston and Vicinity.

Florists wishing to procure flowers for their trade will find no other place in the State where such a large assortment can be found to select from.

ALL FLOWERS FRESH EVERY DAY.

Seventy-five of the most successful growers of cut flowers and plants for Boston may be found in this market every day. Market open from 6:30 to 10 A. M.

PATRONIZE THE GROWER.

Positively no flowers sold at retail. Market 63 Bromfield Street (under Horticultural Hall), BOSTON, MASS.

Address communications to

W. W. TALBY, Wellesley, Mass.

DAN'L B. LONG,
COMMISSION • FLORIST.

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

Wisconsin Flower Exchange,
WHOLESALE
Cut Flowers and Florists' Supplies

131 Mason St., MILWAUKEE, WIS.

CHOICE STOCK, CAREFULLY PACKED,
AND ON TIME. Send for Price List.

J. L. DILLON,
Wholesale Florist
BLOOMSBURG, PA.

WRITE FOR CIRCULARS.
Mention American Florist.

HARDY CUT FERNS
MOSS {SPHAGNUM AND
GREEN SHEET.

A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of
all kinds in any amount on hand.

HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

Cut Flowers.
ROSES, CARNATIONS AND
CHRYSANTHEMUMS.

We can fill orders for above on short notice! Adams, American, United States and Wells Fargo Express Co.'s. Give us a trial order.

GEO. A. KUHLMAN, Pekin, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephones 4786. CHICAGO, ILL.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

WHOLESALE
FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

SMITH, The Florist,
GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 15.	
Roses, Perles, Gontiers, Niphotos.....	1.00@ 2.00
" Mercuria Brides, Hoste.....	1.00@ 3.00
" Watteville, Cusin.....	1.00@ 3.00
" La France, Albany.....	1.00@ 4.00
" Beauty.....	5.00@ 25.00
Carnations.....	.75@ 1.50
Valley.....	4.00@ 5.00
Romans.....	1.00
Narcissus.....	1.00
Viola.....	1.00@ 1.50
Chrysanthemums.....	5.00@ 25.00
Mignonette.....	2.00@ 6.00
Adiantum.....	1.00
Smilax.....	12.00@ 15.00
Asparagus.....	.50
BOSTON, Nov. 15.	
Roses, Niphotos, Gontier.....	2.00@ 3.00
" Bride, Mernet, Wootton.....	3.00@ 5.00
" La France, Meteor.....	5.00@ 5.00
" Perle, Sunset.....	3.00@ 4.00
" Beauty.....	12.00@ 15.00
Carnations.....	1.00@ 1.50
Valley.....	5.00
Romans.....	1.00
Narcissus.....	1.00
Viola.....	.75@ 1.00
Chrysanthemums.....	4.00@ 25.00
Mignonette.....	1.00
Cullas.....	12.00
Asparagus.....	.50
Smilax.....	12.50
Adiantum.....	1.00
PHILADELPHIA, Nov. 15.	
Roses, Beauties.....	15.00@ 20.00
" Albany, Mernet, Dary.....	3.00@ 5.00
" Wootton.....	3.00
" Pierre Guillot.....	1.00
" Meteor.....	1.00@ 3.00
" Perle, Niphotos, Gontier.....	2.00@ 3.00
Valley.....	6.00
Carnations.....	1.00@ 1.50
Viola.....	.35@ .50
Chrysanthemums.....	4.00@ 20.00
Rouvardi.....	1.00
Smilax.....	15.00@ 25.00
Asparagus.....	50.00@ 75.00
CHICAGO, Nov. 15.	
Roses, Perles, Niphotos, Gontier.....	2.00@ 4.00
" Mernet, La France, Bride, Albany.....	1.00@ 5.00
" Beauty.....	10.00@ 15.00
Carnations, short.....	.75@ 1.00
" long.....	1.25@ 1.50
" fancy.....	2.00@ 2.50
Chrysanthemums.....	3.00@ 25.00
Viola.....	.75@ 1.50
Adiantum.....	1.00@ 1.50
Smilax.....	10.00@ 20.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.
N. F. MCCARTHY & CO.

Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1123 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF

Choice Flowers.
WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.
Mention American Florist.

THEO. ROEHRs,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
Branch, at Cut Flower Exchange, 408 E. 34th St.

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,
AND FLORISTS' SUPPLIES,
402 PINE ST. ST. LOUIS, MO.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

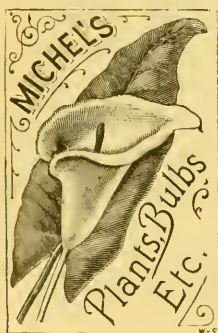
THE CONDITION of the onion seed market would not indicate much change since our last issue. Invoices coming in from California do not show quite the anticipated shortage, still the California growers evidently have little or no surplus this year; this, together with the fact that little or no onion seed was carried over by seedsmen last year, would indicate that prices may certainly be maintained at as high or higher figures than those last indicated in these columns. Whites, Early Red Globe, Red Wethers field, and possibly Globc Danvers, will all be scarce. Scott County, Iowa, reports little, if any, home grown seed. The Seedsmen's League, which sometime since fixed a minimum retail price on onion seed for 1893, are now considering the advisability of making higher figures.

THE STEELE BROTHERS CO., L'T'D, at Toronto has been changed in name, and will hereafter be conducted under the name and style of The Steele, Briggs, Marcon Seed Co., L't'd.

COVERT, who ran for Congress against John Lewis Childs in the Queens County district, beat the latter by 2,500 majority.

IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLO-RIST. The reference lists of roses, Chrysanthemums and carnations are alone worth the price of the book.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT.

RIDER'S P. O., Baltimore Co., Md.

GARDINER'S BULBS.

Many rare and beautiful varieties suitable for winter flowers may now be secured at a greatly reduced rate, as we must make room for spring stocks. Everything we offer is guaranteed sound and of first-class quality.

—==CLEARING SALE.==—

Commencing Monday, November 21st, 1892, and continuing until every item is cleared. Let us hear from you at once, as a QUICK MOVEMENT is certain at prices named.



	Per 100 Per 100 lb
Bessem elegans	3.00
Cannula coccinea.....	2.00
Coccytia Dracunculæ	3.00
Croesus, white mixed.....	2.50
" striped mixed.....	2.50
" yellow.....	2.50
" mammoth.....	2.50
Cyclotheta flava.....	3.00
Eranthis hyemalis.....	3.00
Hymenitis botryoides blue.....	3.00
" cosmosium monstrosam.....	1.50
" muscivora major.....	1.50
White Roman Hyacinths.	
We have a surplus of some 25,000 sound bulbs of these. Will make low offer on application.	
Dutch Hyacinths, Scl. pluk, mixed.....	35.00
" " " " " " " " " " " "	35.00
" " " " " " " " " " " "	35.00
" " " " " " " " " " " "	35.00
Robert Stelger Hyacinths, 1st size.....	5.00
" John Harrell " " " " " " " " " "	5.00
" Longitlorum 4½ to 8 inches.....	40.00
" Spec. Rumor (home grown).....	8.50
Narcissus, Chapernelle.....	7.00
" Porcius.....	5.00
" Biflorus.....	5.00
" Paper White.....	7.00
" " " " " " " " " " " "	9.00
" Ex. Dbl. Roman.....	9.00
" Dbl. Yellow Aurantiis plenius.....	10.00
" Dbl. White, Poeticus plenius.....	10.00
Chinese Sacred.....	15.00
(8.00 per bundle of 12½)	
" (21.50 per basket of 30.)	
Ranunculus.....	4.00
" Dbl. Persia, mixed.....	4.00
" Dbl. French, mixed.....	4.00
" Dbl. Turban, mixed.....	4.00
Sella Sherida.....	2.00
Thalpis, Chrysolaia, yellow.....	21.00
" Yellow Prince.....	20.00
" Rose Golden.....	20.00
" Kaiser's Kroon.....	31.00
" Scl. Fine mixed.....	7.00
" Scl. Extra Fine mixed.....	25.00
" Dbl. Duc van Thol.....	7.00
" Dbl. La Candeur, white.....	8.50
" Dbl. Brillant.....	8.50
" Dbl. Tourneol.....	15.00
" Dbl. Fine mixed (tall).....	7.00
" Fine mixed (early).....	7.00
" Gesneriana.....	8.00

Just Arrived on the S. S. "Catania."

We beg to announce the arrival in splendid condition of the first consignment of **Gardiner's XX Berlin Valley**, which is considered by critical growers to be the **very best on the market**. After filling our contract orders we will have a few cases left (containing 2,500 pips each), which we offer as long as they last at \$22.50 per case. Less than case lots \$9.00 per 1,000. **Ranunculus acrifolius fl. pl.** (The true "Bachelor's Bullons.") These have been specially grown for forcing, and if potted at once will bloom early the next winter—nice stuff—\$10.00 per 1,000. **Dicentra Spectabilis**, large roots, well set, \$5.50 per 100.

In regard to our **Valley**—we do not wish to claim everything in sight; but we are not afraid to stand "**Our Valley**" up against any other—for none. So if you are experimenting to find out who has the best seed **us** your sample orders. Special rates on large lots. Prices of Dutch and Hamburg pips on application. We have **clumps** also of the Berlin and Dutch. Prices on request. Address all orders and correspondence to **No. 21 North 13th Street, Philadelphia, Pa.**

Trade List of Choice Flower
Seeds free on application.

JOHN GARDINER & CO.

UNITED STATES NURSERIES.

List of Surplus Bulbs, all suitable for forcing, which we will sell at prices named as long as unsold, and if advertisement is mentioned.

Roman Hyacinths, White, 15 to 16 centimeters	\$14.00	per 1000
Roman Hyacinths, White, 15 to 16 centimeters	25.00	per 1000
Roman Hyacinths, Yellow, selected bulbs	25.00	per 1000
Narcissus Double Roman, selected bulbs	7.00	per 1000
Narcissus Double Roman, selected bulbs	7.00	per 1000
Prescott refracta single first size	7.25	per 1000
Chin Jai large dwarf, first size	7.25	per 1000
Chin Jai dwarf, "The Gem"	18.00	per 1000
Chin Jai English large bulbs	7.00	per 1000
Chychemen persicum elegantium, large bulbs	32.00	per 1000
Jocunda, 6 centimeters selected for forcing	7.00	per 1000
Diffus Roman Hyacinths, assorted colors	18.00	per 1000
Litum Hurstii bulbs, 3 inches and above	3.00	per 1000
Litum longicaule bulbs, 1 1/2 inches	3.00	per 1000

GOODS TO ARRIVE THIS WEEK.

Milla biflora	\$20.00 per 1,000
Glandolus, "The Bride"	8.00 per 1,000
Solan Japonica, strong clumps	45.00 per 1,000
Lily-of-the-Valley	Price on application.

Our Novelty Catalogue was mailed to the trade last week. If you have not received one it will be worth your while to ask for it.

PITCHER & MANDA, SHORT HILLS, N. J.

Toronto.

Another success! The show here was a great improvement over last year especially with regard to cut bloom. How the boys did yell for more vases; 50 dozen were ordered first, but they soon ran out, 10 dozen more were procured, and again after that 12 dozen more. As regards the financial part I expect that the receipts will just about cover expenses, neither surplus or deficit.

Details must unfortunately be left over until next week owing to pressure of business. The following is a clipping from the leading daily paper here:

"An immense throng of visitors were present last evening at the chrysanthemum exhibit at the Horticultural Pavilion, and any doubt there might have been of the financial success of the show was therefore happily removed. From the time the doors opened at 7.30 o'clock until they closed at half-past 10 the aisles were crowded and the front seats in the gallery filled with spectators. The magnificent collection of flowers, their excellent arrangement by the committee, and the good judgment shown by those who had the awarding of the prizes, were the chief subjects for the comments of those present. Among the visitors were a number of gentlemen from the United States. These gentlemen, who were accompanied by their wives, declared that they had never seen any similar exhibition in the Republic which equalled in quantity and variety the present one in Toronto."

Sweet Peas Under Glass.

ED. AM. FLORIST.—Will some one of your numerous subscribers give the best temperature for sweet peas under glass and oblige. G. H.

Early "Mums" Catch the "Mun."

STOCK PLANTS.

1,500 Josselin, the Best Early White 10c
A limited number of W. H. Lincoln 15c
Early 10c
The Bride 10c
The Bride 10c
All correctly labeled.

Send for prices on **The Coming Foliage Plant for Bedding, "ACALYPHA,"** the right sort, in quantity and in any shape, Stock Plants, Small Plants, or Rooted Cuttings; as hardy as Geraniums.

Also Verbenas, Ageratum, Alternanthera Begonias in variety, Heliotrope, Coleus, Dbl. Alyssum.

This List will not appear again.

JOHN CURWEN, JR.,

(Money Order Office.) VILLA NOVA, PENN'A.

GERMAN FARMERS, GERMAN GARDENERS, AND AMATEURS

Are considered very desirable customers by all seedmen, Florists, and Nurserymen. You can reach almost **Thirty Thousand** of them in all parts of the United States by advertising in

HEROLD DES CLAUBENS
Catholic German Weekly Journal.

Published at 309 Convent St., St. Louis, Mo., since 1840. Do not allow your advertising agent to substitute another paper as being "just as good," etc., but insist on going in the

HEROLD DES CLAUBENS

LORD & THOMAS, 45 Randolph Street, Chicago.
G. MEYER & CO., 124 Nassau Street, New York.
Sole Agents for foreign advertising.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

—Exporters, Importers and Growers of—

Trees, Plants, Seeds, Bulbs.

WHOLESALE FLORISTS.

LILY OF THE VALLEY PIPS.

Selected three year old crowns of the true large-flowered variety, from consignment due in November, ex-stemmer wharf at New York. Per case of 2,500, \$19.00.

MARIE LOUISE VIOLETS, strong runners, free from disease, \$3.00 per 1000. Simlax Seed, per ounce, 30 cents; per pound, \$3.00.

427 & 429 Sansome Street, SAN FRANCISCO, CAL.

NURSERY: MENLO PARK, CALIFORNIA.

FLORISTS' STOCK IN SEASON

	Per 100 Per 1000
Hyacinths—Named.....	\$6.00
" Mixed, single, separate colors.....	25.00
" Roman, yellow.....	35.00
" Roman, white, 12 to 15cms.....	23.00
Narcissus—Von Sion, English grown.....	20.00
" Von Sion, Dutch grown.....	13.00
" Double Roman.....	15.00
" Chinese.....	6.50
Lilium Auratum, 7 to 9 inch.....	7.50
" (Auratum 50 more per 100 in N. Y.)	
" Rubrum, 6 to 8 inch.....	7.50
" Rubrum, 8 to 9 inch.....	10.50
" Album.....	22.00
Tulips, single, as follows: Cottage Maid, Chrysolora, Canary Bird, Golden Kroom, Pottebakker, white and scarlet, Rosa Mandl, Yellow Prince, La Citadelle, Pionny Gold, Rex Rubrum, Duke of York. All at bottom prices.	
HOLLY—Vaughan's "Get There" Holly, full cases, Al stock, known to be the best and most reliable, per case, \$6.00; 5 cases \$16.00; 5 cases \$26. There is big money in this stock. Order now and be sure of it.	

BOUQUET GREEN—Per 100 in Chicago, \$5.00; in New York, \$6. Write for prices on larger lots. Per dozen, Per 100
Azaleas, Ready, strong plants..... 6.00 45.00
Large plants..... 8.25 65.00
Show plants, \$1 each and up..... 1.00 5.00
Spiraea Japonica, strong clumps..... 1.50 9.00
" Compacta multiflora..... 1.50 9.00
" Aurea reticulata..... 1.50 9.00

For description see our "Book for Florists."
LILY OF THE VALLEY, Hamburg Pips, Ready, best 3 year old, per 100, \$1.25; 1000, \$9.50; per 1000 in 5000 lots, \$8.50; in 10000 lots, \$8.00.
Berlin Pips, best 3 year old, per 100, \$1.50; 1000, \$9.50; per 1000 in 5000 lots, \$9.00; in 10000 lots, \$8.50.
Aranaria Excelsa, fine plants, from \$2 each and upwards.

RAY TREES OR LAUREL, per Pair
Standards, heads 8 inches in diameter..... \$18.00
" 24 inches in "..... 21.00
" 28 inches in "..... 25.00
" 36 inches in "..... 35.00
Pyramidalis, 5 ft. high, 24 inches in diameter, 17.00
7 ft. high, 32 inches in "..... 21.00
Standards, 7 ft. in diameter, price on application.

A FINE LOT OF KENTIAS, ARECAS, ETC.

NEW YORK. J. C. VAUGHAN, CHICAGO.

GREEN. CHRISTMAS DECORATIONS. HOLLY.

Our specialty in these is fine quality to suit the florist trade.

LYCOPodium

(BOUQUET GREEN OR GROUND PINE) Conveniently put up in crates of 100 lbs. each, or wound in

Wrapping ready for immediate use. \$5.00 per crate of 100 pounds; \$42.50 per 1000 pounds.

SPECIAL PRICES BY TON OR CARLOAD. Our stock will be better than ever this year.

EVERGREEN WRATHING. Our Wrathing is strong and well made from selected green. If wanted promptly write or wire us. Medium heavy grade, per 100 yds. \$3.00; per 1000 yds. \$30. Special grades made to order. Order now for delivery

as wanted.
Our Holly is as good as grows, and the best that grows, dark green leaved and well berried. We offer cases of 16 cubic feet each, well packed with first-class stock. \$5.75 per case; five cases, \$45.25 per case.

CHRISTMAS TREES. If you handle Christmas Trees, make your wants known to us; we will quote prices on different sizes and kinds.

W. W. BARNARD & CO.,
6 AND 8 NORTH CLARK STREET, CHICAGO.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society on Sept. 16-18, we took with our Begonias Fourteen First Prizes, including the Gold Medal and also the Afnortit Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

Mention American Florist.

25,000 Pansy Plants

The finest strain in the country. It can't be beaten. \$5.00 per 1,000; 75c per 100. Now is your time to order. Address,

GEO. B. WHITEHEAD,

Lock Box 116, GREEN'S FARM, CONN.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 30 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. MCBRIDE, Alplaus, N. Y.

Now is the time to get your Stock
for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and
Foliage Plants in the country.

FRESH DRACENA CANES, all sorts.
LILIAM HARRISII and **BULBS** for
Winter Forcing.

Send for Special prices or come and examine
our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.
Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

**ST. ALBANS,
ENGLAND.**

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview
buyers or reply to any communication addressed to
him at 205 Greenwich Street, New York City.
Mention American Florist.

**IF YOU WISH TO GIVE YOUR
BUSINESS A BOOM!**
PUT IN THE

SNOW GREST DAISY

It will help to cheer the winter's gloom,
And make the times go aisy.

Stock practically unlimited. All this **DAISY**
needs is to be seen to be appreciated. It can
BLOW ITS OWN TORN and make it heard
the length and breadth of the continent.
Its popularity is spreading like a wild fire, and will
soon supersede everything of its kind. We propose
to put the price within the reach of all, and
give you a big Woodbury dozen, 15 for a dollar;
100 for \$5. Sample plant in bloom for 12 cents in
stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—
a few ounces left. 500 seed 30c.; 1000, 50c.; 1½ oz. \$1.50;
½ oz. \$2.50; oz. \$4.00. Plants of same 40c. per 100;
\$5.00 per 1000.

New crop mammoth Verbenas seed, splendid strain,
in fine mixture, plenty of whites, intense crimsons and
purples, with all the intermediate colors and tints, in
packets of 1000 seeds. 50c.; 1½ oz. \$1.10; ½ oz. \$2.00. Our
seedlings are up and growing nicely. Will have plenty
of plants later.

Try the Dakota Primroses; you will be charmed with
its great white, scented blooms, 2 to 3 inches across;
100 seeds, 25c.

Double fringed Dianthus, fine strain, all colors mixed,
trade packet, 20c. Rooted Cuttings and small plants
of our leading specialties later. Address, cash with
order, please, **J. C. GIBSON, Woodbury, N. J.**

THE SMILAX KING!

Who? **KOFFMAN,**
Where? **WALDEN,
Orange Co., N. Y.**

What? SMILAX

25c. a string; 20c. a string by the hun-
dred; 15c. a string by the thousand.

When? **ALL THE YEAR AROUND.**

And he pays the Express.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book
of 100 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

The Grand New White Chrysanthemum



NIVEUS.



Winner of the \$100 Prize and Gold Medal
at Cincinnati.

ALSO THE JONATHAN PERIAM AND JOHN THORPE
SPECIAL PRIZES AT CHICAGO.

WILL BE DISSEMINATED MARCH 1, 1893.

Orders booked now.

Nathan Smith & Son,

167 West Maumee Street, **ADRIAN, MICH.**

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell.

THE VERY BEST ORNAMENTAL SHRUB.

It will make you money and give the best of satisfaction to your customers.
Millions can be sold to planters if it is brought properly to their attention.

Largest Stock in America.

SPLENDID PLANTS. CHEAPER AND BETTER THAN IMPORTED.

SEE PRICES BELOW:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100; \$30.00 per 1000
TWO YEARS, 2x2½ feet, fine.....	6.00 " 50.00 "
TWO YEARS, extra selected, 3x3½ feet, strong.....	7.00 " 60.00 "
THREE YEARS, twice transplanted, 3 feet, strong, nicely branched..	8.00 " 70.00 "

Packed in best manner and delivered to Express or Railroad free of
charge on receipt of proper remittance. Address

THE DINGEE & CONARD CO., West Grove, Pa.

CASTLEWOOD NURSERIES.

CHOICE CHRYSANTHEMUMS AND CANNAS.

WHOLESALE AND RETAIL at lowest figures. All leading and desirable
varieties, old and new; also present season's prize winners.

Send your address for Catalogues, which will be mailed when issued.

T. H. SPAULDING, ORANGE, N. J.

Double Petunias.

Twenty extra choice named sorts. Twelve of
these were illustrated in the AMERICAN FLORIST
No. 225. These are the result of 12 years' careful
breeding. Price, \$10.00 per 100.

I also offer a limited quantity of Seed of this
Double Strain at 50 cents per 1000 seeds.

**G. A. MCTAVISH,
VICTORIA, B. C., CANADA.**

When writing to any of the adver-
tisers on this page please mention the
AMERICAN FLORIST.

TUBEROUS BEGONIAS.

Per 100	Per 100
First size bulbs,.....	\$5.00 Dbl. mix. large flower \$9.00
Second size bulbs,....	4.00 " " very " 12.00
Third size bulbs,....	3.00 Cush with order.

I sent a flower to the AM. FLORIST cut from a 4-inch
pot 4½ inches across. For large flowering kind, send to

NICK GREIVELDING, Importer, Sparta, Wis.

THE GREAT ANTIPEST.

For particulars, see next week.

**R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.**

KENNICOTT BROS.,

WHOLESALE

CUT FLOWERS,

34 & 36 Randolph St., CHICAGO.

Largest wholesale cut flower establishment in the west. The very best facilities for handling cut flowers so as to reach customers in perfect condition.

WIRE WORK A SPECIALTY.

Florists Visiting Chicago are cordially invited to make our establishment their headquarters while in the city.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen
" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

300,000 PANSIES—EXTRA.

THE JENNINGS STRAIN of Large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are fine Winter bloomers and for Spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 60 cents per 100.
Any size to flowering plants, \$5 00 per 1000; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't write and ask if I can fill an order as it is only a waste of time.
Seed of this strain \$1.00 per trade packet of 2,000 seeds; \$6.00 per ounce.

4,000 CARNATIONS LEFT,
of Hulse's White, Tidal Wave, Mayflower, Wilder, Snow Bird, etc. Very low to close out. Write for prices.

E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254, SOUTHPORT, CONN.

BOKAY GREEN

IN STOCK.

First quality now at \$5.00 per 100 pounds.

Send for complete price list of **Xmas**

Trees, and Decorative Goods.

Largest and most complete line in the Northwest.

JOSEPH BANCROFT, Cedar Falls, Iowa.

PROTECTION TO AMERICAN PLANTS.

BEST RESULTS obtained from FOSTITE.

W. H. Whiting, Wellsboro, Pa., writes: An improvement on all remedies for the cure and prevention of mildew on roses.

T. C. Austin & Sons, Suffield, Conn.: We look to Fostite as our first remedy on carnation disease.

JOOSTEN'S MAGAZINE BELLows, the best for distributing Plant and Insect Powders.
Sold by the trade.

C. H. JOOSTEN, 3 Coenties Slip, New York.
Importer of Plants and Bulbs.

"CHRY-S-COLA"

ROOTED GERANIUMS.

My geraniums are now ready for shipment. If you are interested in varieties that will attract attention, and customers, send for my Chrys-Cola Price List.

S. B. FIELD, Roselle, N. J.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, *Magnolia glauca*, *Kalmia latifolia*, *Xerophyllum*, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs.

Wholesale Trade List FREE. Send samples of what you want

ROGERS NURSERIES, Moorestown, N. J.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

TUBEROUS BEGONIAS.

By middle of November dry tubers will be

ready for delivery. \$6.00 per 100.

BRAUER & RICHTER, McConnellsville, O.

YOUNG BROS.,

The Largest Wholesale

CUT FLOWER HOUSE

IN THE WORLD.

We invite attention to the following list of well-known growers, whose reputation is a sufficient guarantee to the quality of the stock handled by us:

Asmus, Ernst	Fowler, D., Jr.	May, J. N.	Rahmstick, J. L.
Butler, Chris	Gardner, J. G.	Markle, J.	Rassbach, J. & Sons
Binstead, G. W.	Ganewell, J. McD.	Mahon Bros.	Saltford, W. G.
Bruen, G. W.	Germoud & Cosgrove	McKnight, H. B.	Saltford, Geo.
Bradbury, Jos.	Henderson, Peter & Co.	McDonald, R.	Slaughter, T. J.
Barker, Jos.	Henderson, J. H.	McMahon, Frank	Sloan, Jas
Barry, M. J.	Herr, A. M.	McCarthy, D. F.	Swayne, Ed.
Barnes, John	Hostetter, E. P.	Maximer, H. A.	Swayne, Wm.
Christy, C. R.	Harcourt's Son, J. D.	Manion, Thos.	Soltau, B.
Connelly, P.	Horn, Henry,	McPherson, A.	Taplin, Jas. S.
Chitty, H. E.	Jennings & Waterbury	Pesenecker, C.	Tucker, A. C.
De Pew, Tunis	Jones, A. T.	Piercy, Francis,	Thorpe, John
Dence, C. J.	Kinzey, Frank	Pierson, F. R. Co.	Tait, C. S.
Dorrance, B. F.	Keefe, Thos. H.	Pitcher & Manda	Weigand Bros.
Denman, G. N.	Keyser & Co.	Reid, John	Wight, W. P.
Davison, W. R.	Kratz, Louis	Ryan, Jas.	Young, W. H.
Darsley, Geo.	Littlejohn, Jas.	Rokeby Farms	Lovett, J. T. Co.

AND MANY OTHERS.

We offer now

PRIZE GARYSANTHEMUMS In all the Leading Varieties, Including Novelties,
Grown Especially for Exhibition Purposes.

Orchids all the Year Round.

YOUNG BROS.,

20 WEST 24TH ST.

NEW YORK.

YOUNG BROS.

==Plant Department.

By a special arrangement with several of the largest growers,
we are now prepared to offer

PALMS AND DECORATIVE PLANTS,

in all the select and desirable varieties suitable for artistic decorations. The use of choice
and ornamental plants for

HOUSE DECORATION

has become so general that we feel confident that buyers will appreciate the advantages of a
place easy of access and centrally located, where they can be obtained.

The collections which we represent are

Unequaled in Extent and Variety, and
Rich in Novelties.

The Plants Have Been Grown Cool and Stocky.

Packing for Transportation by Express will receive Special Attention,
and those placing orders with us can depend upon having them filled
promptly and satisfactorily.

YOUNG BROS.,

WHOLESALE FLORISTS,

20 West 24th Street.

NEW YORK.

Chicago.

The last meeting of the club was a very brief affair. Everyone wanted to be at the exhibition, then at the height of its glory, so after hurriedly installing the new officers the meeting adjourned without transacting any further business.

Last Friday noon the quarters of the Chicago Cut Flower Exchange were thrown open for inspection and tables in preferred positions were auctioned off to the highest bidder. Of the 25 tables 10 were disposed of in short order, and as a good many who have expressed an intention to take space were unable to be present the remainder will undoubtedly be soon taken. In celebration of the event the Directors of the Exchange had generously provided a splendid lunch with liquid accompaniments, to which liberal attention was paid by those present. The Exchange was formally opened for business on Tuesday, the 15th inst. The prospects for the success of the venture seem now very bright. The Directors will at the next meeting of the Florist Club invite that organization to hold its meetings at the Exchange, free of any charge, and thus further centralize the business interests of the trade in this city.

Mrs. W. D. Chandler, for many years in the trade in this city, died Oct. 31.

Mr. O. P. Bassett advises us that he has been cutting good Roman hyacinth since October 19, several weeks earlier than the date noted in last issue as that upon which the first came to market.

Among recent visitors to the city not previously noted were Messrs. F. J. King, Ottawa, Ill.; W. C. Hill, Streator, Ill.; Chas. Dannacher, Davenport, Iowa; Thos. Franks, Champaign, Ill.



Chinese Lily Bowls.

Bulbs planted in these Bowls increase your sales 10 fold.

No. 1. BLUE OVAL. Extra fine porcelain. BLUE AND WHITE. Set of 3 bowls, 7, 8½ & 10 in. \$1.40. No. 2. Set of 3 bowls, 5, 6 and 7 inches. No. 3. JAPAN OVAL. Beautifully decorated in many colors. Set of 3 bowls, 7, 8½ & 10 inches. \$1.40. No. 4. Set of 3 bowls, 5, 6 and 7 inches. 5 per cent off on 12 sets; 10 per cent off on 25 sets. No. 5. Single bowl, extra deep, 6 inches, \$5.50 per dozen.

A. BLANC & CO., Philadelphia, Pa.
Headquarters for Cacti and Electrolites.
Mention American Florist.

August Rolker & Sons



COLUBIAN JARDINIERE, Bronze, finest, 10 in. diameter, \$25.00. 12 in. diameter, \$24.00 net.
136 & 138 West 24th St., NEW YORK.
Mention American Florist.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

HEADQUARTERS for CHRISTMAS TREES!

Wisconsin Blue Spruce. The finest of all in form and color. Well furnished, selected



trees, carefully packed in light, strong crates and bales, containing 25, 50 and 100 Trees, delivered, **Freight Charges Paid**, to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
3 to 4 feet	\$ 2.00	\$ 4.00	\$ 7.00
4 to 6 feet	4.00	6.00	10.00
6 to 8 feet	6.00	11.00	20.00
8 to 10 feet	10.00	16.00	30.00
10 to 12 feet	15.00	25.00	45.00
12 to 14 feet	20.00	35.00	60.00
14 to 16 feet	25.00	45.00	80.00

The two largest sizes are of Balsam Fir; fine selected specimens. Special correspondence solicited on car lots.

As the Western Classification of roads now exact, by a recent ruling, **ACTUAL PREPAYMENT** of all freight charges on Christmas Trees, I am obliged to assume these charges, hence I am under the necessity of insisting on the following:

TERMS OF PAYMENT. At least one-half cash with order; balance 30 Days approved credit. All bills to be paid not later than January 1st, 1893. No attention will be paid to orders not complying with above terms. Orders should be in before December 1st.

W. D. BOYNTON, Shiocton, Wis.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37½ & 39, Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

GARDENING

Edited by William Falconer, tells amateurs in gardening what they want to know in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by THE GARDENING CO., Monon Building, Chicago.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs, ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,

SAN FRANCISCO, CALIF.

J. M. McCULLOUGH'S SONS, CINCINNATI, O.

.. HOLLY, ..
CLUB MOSS,
 (OR BOUQUET GREEN.)

**— FLORISTS' —
 — SUPPLIES, —**

WHEAT SHEAVES, GRASSES,

IMMORTELLS, SPHAGNUM MOSS,

BASKETS, WREATHS, ETC.

Send for Price List.

FLORISTS' FLOWERS.—We pay special attention to seeds used by florists. Our strains of **CINERARIA, PRIMULA** and **PANSY** are unsurpassed.

J. M. McCULLOUGH'S SONS,
134 & 136 Walnut St., Between 3rd and 4th Streets. **CINCINNATI, O.**

OUR . . . ©
HALF-TONE
ENGRAVINGS

.. ARE MADE BY ..

J. MANZ & CO., Engravers,
 183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
 Publishers American Florist.

MARSCHUETZ & CO.,
FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.
 Mention American Florist.



WHITE DOVES
 FOR FLORISTS.
 Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
 103 Van Winkle St., Jersey City, N. J.

AGENTS:
 J. C. Vaughan, Chicago, Ill.
 H. Bayerdorfer & Co., Phila., Pa.

CARNATION CULTURE; BY
 L. L. LAMBORN
 Third Edition containing all available information on the subject NOW READY. Price, \$1.50
 mail. Address H. E. CHITTY, Paterson N. J.

Always mention the AMERICAN FLORIST when writing to advertisers

Wholesale . . .
CUT FLOWER
DEPARTMENT
Specialties:

AMERICAN BEAUTY ROSES,

ORCHIDS, CARNATIONS AND

CHRYSANTHEMUMS in Season.

The popular varieties of **ROSES, CARNATIONS, SMILAX** and **ADIANTUM** always on hand.

CYCLAMEN PLANTS
 FOR SALE THROUGH NOVEMBER AND DECEMBER.
 WRITE FOR PARTICULARS.

CUT FLOWER PRICE LIST sent to all florists on application.

BASKETS AND JARDINIERES.

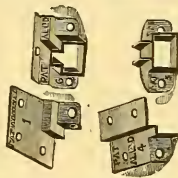
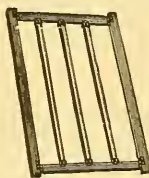
Plant Stands, Pot Holders and Covers, Fancy and Plain,
 in many different Styles for the Holiday trade.

ORDER NOW AND PREPARE IN TIME
 for your own trade. Full details are given in our Wholesale List of last September; mailed free to the trade on application.

XMAS HOLLY, best Delaware. **BOUQUET GREEN,** best Eastern.
 Palmetto and Chamærops, Palm Leaves and Crowns, Wild Smilax,
 Needle Pines and other Southern Greens we furnish in good
 quality at moderate figures. If larger quantities
 are desired we quote special rates.

CORRESPONDENCE INVITED. ADDRESS

AUGUST ROLKER & SONS, New York,
 136 and 138 W. 24th Street, or P. O. Station E.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
 CYPRESS GREENHOUSE WOOD
 WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.

CATALOGUE PRINTING.
ELECTROTYPING.

Done with expert ability for Florists,
 Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.
 Mention American Florist.

Minneapolis.

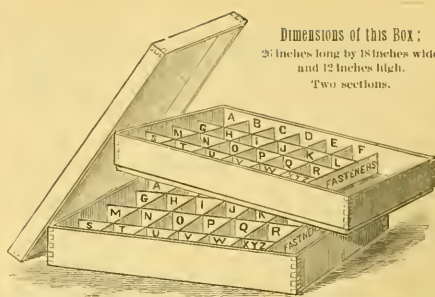
The chrysanthemum show opened the evening of the 8th inst. with all the plants in place, but the cut flowers were put in position the following morning. The weather was stormy and cold and it was difficult to deliver the plants to the hall without injury, but when everything was in position both plants and cut flowers were seen to be the finest ever exhibited here. The attendance was not very good, probably on account of the excitement due to the presidential election.

Chrysanthemums formed the bulk of the display, but Mr. Mendenhall's exhibit contained some choice palms and orchids and some fine American Beauty roses, also some very fine specimens of Mme. Pierre Guillot. Mr. C. A. Smith showed especially fine La France, Duchess of Albany and Meteor roses.

E. Nagel & Co. had the best collection of chrysanthemum plants and cut flowers and captured nearly all the first premiums. The exhibitors were E. Nagel & Co., R. J. Mendenhall, C. A. Smith, Wessling & Hartman, all of this city, and two amateurs, Mrs. Rumler and Mr. Shepherd. The judges were Messrs. Gust Malmquist, Chas. Wagner and Wm. Desmond.

Of the premiums awarded E. Nagel & Co. received nearly all the first on chrysanthemum plants and cut flowers, Messrs. Mendenhall and Wessling & Hartman taking the majority of the seconds and thirds, Mr. C. A. Smith getting his share of the seconds in the cut bloom classes. In cut roses Mr. Smith took all the firsts but one, Mr. Mendenhall taking the seconds and first for American Beauty.

Vaughan's special premium was awarded to E. Nagel & Co. for a seed-named Flora Rumler, color white, very large and full, strong grower and free bloomer. The winning specimen bush plant was a W. H. Lincoln, of perfect form and bearing 125 flowers, all of good size.



Dimensions of this Box:
2 1/2 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1 1/2-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St.,
Treas. & Mgr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.



Fancy.



Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

AT BAYERSDORFER'S

An Immense Trade in Florists' Supplies.

That is what we have done this fall. Our trade has been so far ahead of previous years that we have been obliged to secure additional lofts and work rooms. You have still time to procure a full supply for the **Holiday Trade**, if you attend to it at once.

Baskets, Metal Designs, Doves, Jardinieres, Wheat Sheaves, Cape Flowers, etc. These are among our Specialties, and we are in the lead with all novelties. Let us hear from you. Catalogues on application.

H. BAYERSDORFER & CO.,

56 No. 4th St.

PHILADELPHIA, PA.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.

Sold by Seedsmen.



FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.

Sizes, 1/4-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mfrs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

Metal Memorial Designs,

WREATHS, CROSSES, HEARTS, STARS, ANCHORS, LYRES, BOUQUETS, ETC., of green or white Metal Foliage and assorted Porcelain Flowers.



"BRIGITTA", size about 16 inches across; in green or white foliage, retails ready'y for \$5; wholesale price \$2 25 net.
Address

TRUE TO NATURE
ARTISTIC
CHASTE
DURABLE
PROFITABLE

Better than Immortelle
Designs for
**CEMETERY
DECORATIONS**

Bringing the purchaser readily one hundred per cent. profit.

Buy from Headquarters.

We carry the largest assortment and the most tasteful styles brought to this country; at prices ranging from 50 cents each to \$5.00 net and more. Illustrated list free to the trade on application.

WELL ASSORTED COLLECTIONS put up for \$10, \$15, \$20, \$25, net, and more.

STRONG EASELS for above, nicely bronzed, furnished at 25, 35 and 50 cts. each net.

INSCRIPTIONS of head letters, *Rest, At Rest, Father, Mother, Baby*, furnished at 3c. the letter net.

SEND IN YOUR ORDERS NOW.

AUGUST RÖLKER & SONS, NEW YORK,

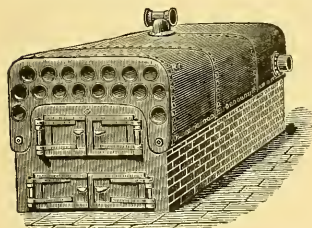
136 & 138 W. 24TH STREET, NEAR 6TH AVE., OR P. O. STATION E.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.

CHICAGO.

Mention American Florist.

STOTT'S DISTRIBUTOR



Read Advertisement in Next Week's Issue.

Mention the AMERICAN FLORIST when writing advertisers on this page.

GREAT REDUCTION

On all orders for Original Crates of our



NEPONSET FLOWER POTS, OF WATERPROOF PAPER.

They are unbreakable, handsome, light, clean, durable and cheaper than earthen pots in first cost and freight. The best pot for market growers of plants who have to sell both pot and plant together.

Original Crates of	2 1/2	2 3/4	3	3 1/2	4	5	6	1-ch
Hold	100	1000	1000	100	500	500	500	500
and Weight	10	25	32	42	32	44	61	105

For price list and all further information address our

Wholesale Agents

AUGUST RÖLKER & SONS, Station E, New York.
R. & J. FARQUHAR, Boston, Mass.

Who furnish samples, by mail, postpaid, on receipt of

10 cts.	11 cts.	11 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2 1/2-in.	2 3/4-in.	3-in.	3 1/2-in.	4-in.	6-inch pots.

F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.

Mention American Florist.



FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT
DRAINAGE

BENCH TILE

For testimonials, circulars, etc., address


UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

Used by all the leading
Growers and Horticultural
Builders.

W. P. WIGHT,

Do you want an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL 
WIND ENGINE
GEM STEEL TOWER

The GEM ENGINE, when furnished with
Graphite Bearings, requires no oiling, no chub-
bing of towers, no hinged or frait-jointed towers,
and practically no attention, yet is more dur-
able than other Wind Motors that require all this
and more unique in finish. The GEM TO TURBINE
is made in one piece and has no joints, simply
fits to the greatest extent and has no equal. Both
are manufactured and guaranteed by the oldest
and most reliable Wind Mill Company in exist-
ence, and who build the Hulladay Standard
Pumping and Geared Wind Mills, the
Hulladay Patent Watermills, the
Wind Wheel Mills, Pumps, Tanks, Horse-
Hay Tools, &c. No other company offers equal
inducements. Send for Catalogue and Prices.

U.S. WIND ENGINE & PUMP CO.

RATAVIA III U.S.A



BRANCH HOUSES Omaha, Neb., Kansas City, Mo.
DEPOTS Boston, Mass., Ft. Worth, Tex.

HERE WE ARE
AGAIN.



Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaranteed.

CORRESPONDENCE
SOLICITED.

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.

CLEAR CYPRESS

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.

NORTH CAMBRIDGE, MASS.

“Standard” Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

H. M. HOOKER COMPANY.

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

CYPRESS GREENHOUSE MATERIAL

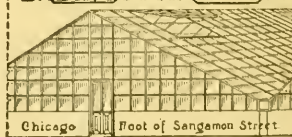
HOT BED AND VENTILATING SASH



JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

A. DIETSCH & CO.,
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH GUTTERING & ETC.



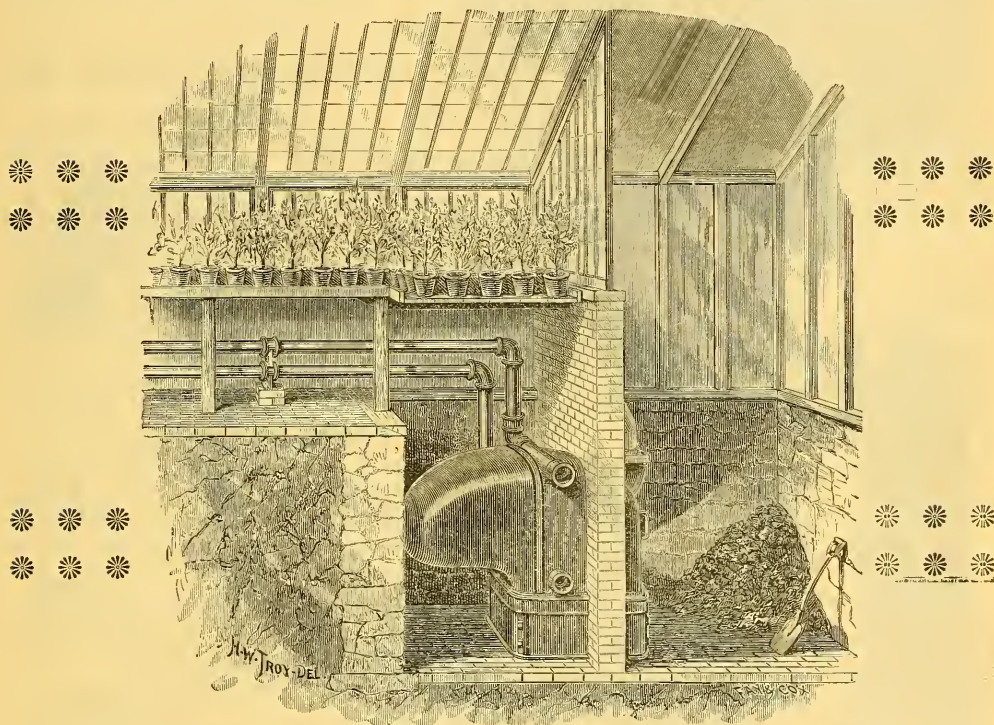
Mention American Florist

When you write to any of the advertisers in this paper please say that you saw the advertisement in the **AMERICAN FLORIST.**

HITCHINGS & CO.

Established 1844.

GREENHOUSE HEATING AND VENTILATING Horticultural Architecture and Building.



**FIVE STYLES OF BOILERS. TWENTY-FOUR SIZES.
GREENHOUSE PIPE AND FITTINGS.
PERFECT SASH RAISING APPARATUS.
OUR STANDARD IRON FRAME.**

Commercial Rose and Greenhouses erected complete,
or the Structural Iron Work shipped
ready for erection.

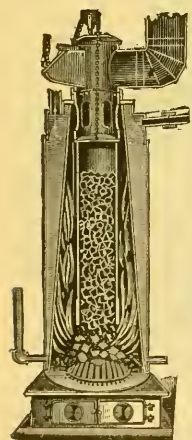
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

HITCHINGS & CO.

233 Mercer Street, NEW YORK.



And the wind blew through his chrysanthemum.—*Cincinnati Enquirer.*



Mention American Florist.

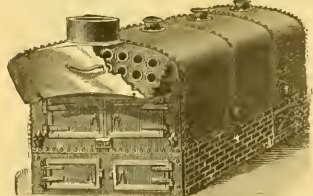
THE WILKS HEATER,
FOR HEATING

GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**

SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



Mention American Florist.

THE "LOCKLAND" Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

Write for circulars and estimates.

LOCKLAND LUMBER CO.

Lockland, O.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER

OR
ERICSSON

**HOT-AIR
PUMPING ENGINE**

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N.Y.
Mention American Florist.



ERICSSON

D. H. ROBERTS,

159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.

Our Glass received the Highest Award at the Boston Convention of the S. A. F.

ESTABLISHED

1866.

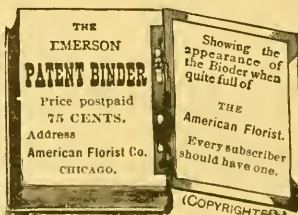
FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.



THE

**EMERSON
PATENT BINDER**

price postpaid
75 CENTS.

Address
American Florist Co.
CHICAGO.

Showing the
appearance of
the binder when
quite full of

THE
American Florist.
Every subscriber
should have one.

(COPYRIGHTED)

YOU CAN

SAVE MONEY BY
PURCHASING
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,

272 Freeport St.,

BOSTON, MASS.

THE STANDARD Ventilating Machines

Received best awards

at

BUFFALO, N. Y.

BOSTON, MASS.

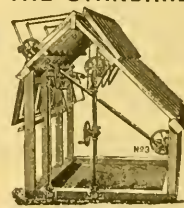
TORONTO, ONT.

Send for Catalogue

and prices.

E. HIPPARD,

Youngstown, O.



GREEN-HOUSE HEATING.

Meyers & Co.

1173 S. Ninth St.,

PHILADELPHIA.

Send for catalogue

and price list.



ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

FLORISTS, DO YOU WANT A BOILER

That you can build on to and make larger as you increase your business plant? If so, get an

American Champion,

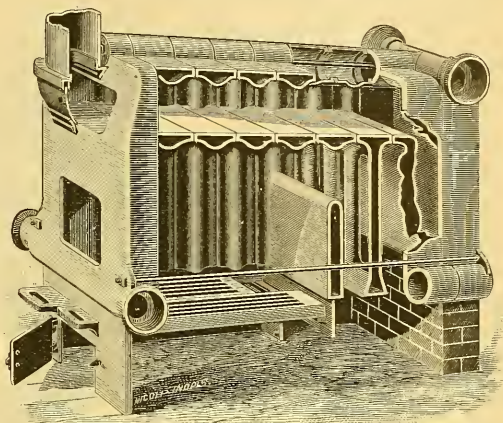
Improved by a FLORIST especially for Greenhouse Heating. Six Sections will heat 500 feet of 4-inch pipe, and the same sections can be added to, till a capacity of 5,000 feet of radiation surface is reached.

It will burn Hard Coal, and never clog with soot when Soft Coal is used. Send for descriptive price list.

J. D. CARMODY.

DO YOU WANT AN APPLIANCE IN YOUR GREENHOUSE that will save *time, labor and annoyance*? Get a "New Departure" Ventilating Apparatus, that will do the work quicker, better and cost less than any other in the market.

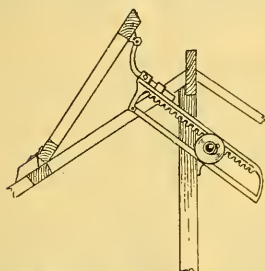
Satisfaction guaranteed or no pay.



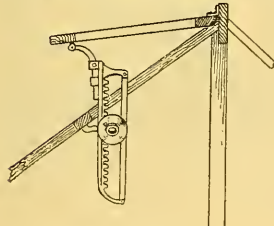
Sectional View of American Champion.



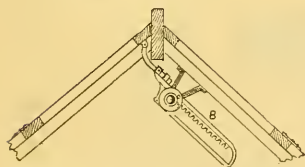
Cogged Lever with Connecting Rod and Screw Eye Attached.



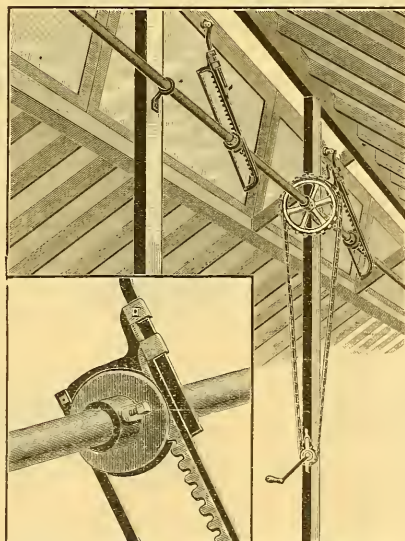
Sash Hinged at Bottom.



Sash Hinged at Top.



Sash Opening at Top without Center Posts.



Apparatus Set Up.



Sprocket Wheel and Chain.

PAY MORE ATTENTION TO VENTILATION AND YOU WILL GROW BETTER PLANTS.

Send for a treatise on Greenhouse Ventilation and Descriptive Catalogue of our apparatus. Address

J. D. CARMODY, EVANSVILLE, IND.

Index to Advertisers.

Abel C C & Co.	375	Lombard R T	370
Andorn Nurseries	379	Long Dan'l B	372
Bailey F A	375	Lonsdale Edwin	371
Barnett Joseph	375	McBride Alex	371
Barnard W W & Co.	375	McCarthy N F & Co	373
Bay State Hdw Co	378	McCallough Sons J M	373
Bayreuther H & Co	373	McFarland J H	373
Bevins Henry W	373	McFarland J H Co	373
Beger H H & Co.	373	McFarland J H Co	373
Birt F W & Co.	373	McFarland J H Co	373
Blane A & Co.	373	Maring Hart & Co	373
Bonsall Jos E & Son	373	Marschall & Co	373
Boston Flower Market	372	Meyer John C & Co	372
Boston Letter Co	374	Michel Plant & Build	371
Brady W D	373	Milling Bros	373
Brague L B	371	Moffatt G J	371
Brauer & Heister	373	Moninger and Co	371
Brown & Haynor	373	Moon Samuel C	373
Burrow J G	371	Moore Frank L	371
Carmann R	371	Myers & Co.	371
Carmody J D	373	National Hot Water	371
Chitty H E	373	Heater Co.	370
Clark Bros	373	Niles Centre Floral	372
Cook John	371	Olson M	373
Curwen John	373	Ouwkerk P	373
Devine's Boiler Wks	373	Peck & Sutherland	373
De Witt J Thomas	371	Pierce & Coleman Co	373
De Witt J Thomas	371	Pennock C J	371
Dillon J L	372	Pennock sangl T S	371
Dingee & Conard Co	371	Pierion A N	371
Doeer H A	373	Pierion F R Co	371
Eckhardt Theo	374	Pletcher & Manda	374
Elliott W H	372	Randall A L	373
Ellison Wm	373	Resonance Bros	373
Faust H G & Co	373	Roberts D H	373
Felheim Lyman	373	Roehrs Theo	373
Field S B	373	Rogers Nurser	373
Gardening Co The	372	Rolker A & Sons	373
Gardner J & Co	373	Rolker A & Sons	373
Gibson J C	373	Rolker A & Sons	373
Gonzalez & Co	372	Sander & Co	371
Graveland Nick	373	Schulz Jacob	371
Hall Ass'n	370	Schulz John A	371
Hammond Ben	373	Schulz John A	371
Hart James	373	Schulz John A	371
Hart Michael A	373	Schulz John A	371
Hartford & Nichols	372	Schulz John A	371
Hehl L	370	Schulz John A	371
Herenden Mfg Co	373	Schulz John A	371
Herrid Des Ghaubens	373	Schulz John A	371
Herr Albert M	371	Schulz John A	371
Hewes A H & Co	373	Schulz John A	371
Hill E G & Co	373	Schulz John A	371
Hippard E	373	Schulz John A	371
Hitchings & Co	373	Schulz John A	371
Hooker H M Co	373	Schulz John A	371
Horan Edw C	372	Schulz John A	371
Hutchinson Bros	373	Schulz John A	371
Hunt E H	373	Schulz John A	371
Hunt M A	373	Schulz John A	371
Hunter & Purdy	373	Schulz John A	371
Irvine John Co	373	Schulz John A	371
Jeffords J E & Co	373	Schulz John A	371
Jennings F B	373	Schulz John A	371
Joosten C H	373	Schulz John A	371
Jordan Floral Co	371	Schulz John A	371
Kennett Bros	373	Schulz John A	371
Koffman E	371	Schulz John A	371
Kroeschell Bros	373	Schulz John A	371
Kuehn C A	373	Schulz John A	371
Kuhl Geo A	372	Schulz John A	371
La Roche & Stahl	372	Schulz John A	371
Lockland Lumber Co	373	Schulz John A	371

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

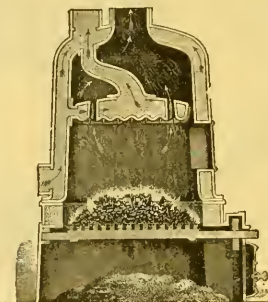
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



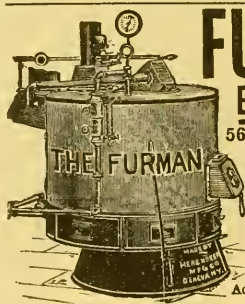
JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of
**HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.**
Estimates of cost given, and Illustrated Catalogue furnished on application.



FURMAN BOILERS

Economical — Substantial — Safe!
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.
Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address **HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

ALBUQUERQUE, N. M.—Byron H. Ives has added a block of new houses containing 5,000 feet of glass.

JOLIET, ILL.—A chrysanthemum show was held here at the Steel Works Club last week. It was very successful.

NASHVILLE, TENN.—A chrysanthemum show was held here this week on behalf of the Hospital of the Good Shepherd.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

OUR NEW TRADE
DIRECTORY
FOR 1892

Contains a list of all the **FLORISTS, NURSERYMEN** and **SEEDSMEN** of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

The SPENCE HEATER
HOT WATER FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, NOVEMBER 24, 1892.

No. 234

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. B. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

The new officers to be installed January 1, 1893 are: Wm. B. Smith, Washington, president; Prof. Wm. Telease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Chrysanthemum shows	393
—Toronto	393
—Baltimore	394
—View at Toronto show (illus.)	395
—Buffalo (continued)	396
—Group of pink chrysanthemums (illus.)	397
—Pittsfield, Mass.	397
—Washington	398
—Indianapolis	398
—Erie, Pa.	400
—London, Ont.	400
—Newport, R. I.	400
—Galt, Ont.	400
—Other points	400
Carnations—Seasonable hints	401
—Carnation crosses	401
—Carnation Caesar	401
Our telephone	402
Hydrangeas for Easter	402
Philadelphia	403
Washington	403
New York	406
Boston	406
The seed trade	408
—A seedsmen's prayer answered	408
—Onion seed	408
Chicago	410
Portland, Me.	410
Watering young roses	410
Kerosene emulsion	414

Society of American Florists.

The annual report for 1892 is now ready and has been mailed to all members whose dues for the current year are paid. Those who have not paid their dues yet are requested to remit to the secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass., and the report will be mailed in return.

Do YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Chrysanthemum Shows.

Toronto.

As I mentioned in my last notes, the chrysanthemum show held here during the second week in November was a great success, although financially the association is nothing ahead. There is not a doubt, however, but that the show has gained considerably in popularity with the best class of people in the city and with people who love flowers for their own sake. But it does seem that in order to attract other people who are not yet really interested in plants and flowers and their cultivation, that some other attraction will have to be provided. Once get them to come to the show and they are nearly sure to come another year and to take an interest in it. The problem just now is how to get up a flower show with some other attraction that will not offend the best class that do attend and at the same time will draw the masses and so make it a financial as well as a floral success. I dare say that other cities of about the same size as this have struck the same difficulty and I think a discussion on the subject before next year might bring out some remedy. Mr. D. B. Long, of Buffalo, who is an authority on flower shows, might give us his ideas. Our show was well advertised in the papers, both by "locals" and "ads," also by posters, the street cars and in the stores, we had a band six times in the four days (four evenings and two afternoons), the Lieut. Governor opened the show and his lady gave the prizes away on the last day. There was a florists competition on three evenings in which those present seemed to be much interested, but still the masses were not there. Now how are we to catch the masses.

Now for some few details concerning the show. In plants Mr. A. McPherson, gardener to Colonel Sweny, captured most of the principal prizes, including a magnificent cup presented by Messrs. John Davis & Son, the old and well known potters, also a very handsome silver medal. His first prizes were for 12 distinct varieties, 1 specimen Japanese, 1 Chinese incurved, 1 specimen any kind, any sized pot (cup), 6 specimen white (including some fine plants of Puritan), 6 specimen yellow, 6 specimen pink (including fine Lilian Bird, Lizzie Cartledge, etc.), 6 any other colors, specimen Mrs. A. Hardy, 25 distinct varieties in 6-inch pots (medal)—Messrs. Spears & Muston ran him very hard for this—25 plants single stem, single flower (including some of the largest flowers of Lilian Bird, Dawn, etc. in the show), 6 yellow, single stem, single flower, 6 pink ditto, and 6 bronze ditto. Those coming in second and third on these (and sometimes it was

very close) were the Central Prison (Mr. Houston), W. G. Wadds, gardener to G. J. Cook, Esq., Mr. R. Gore, florist, Mr. Geo. Vair, Mr. W. J. Laing, Messrs. Manton Bros. and Messrs. Spears & Muston. These also, with Mr. R. Mearns, Mr. A. J. Watkins (who showed a very pretty little lot of single stem single flower plants), Mr. H. Palmer, all took firsts in other sections. Unfortunately I have mislaid my notes in regard to these and am therefore unable to give full particulars except from memory.

Hicks Arnold figured conspicuously in several sections. Ada McVickar did not show up as well as it did last year. Kioto was immense. Dawn was both immense and most beautiful, Wheelers large as coal scuttles, Dominations like full moons.

There were six entries for the group of chrysanthemums arranged for effect with palms, ferns and other foliage plants. Mr. Geo. Vair took first prize with a very fine bank which also included some orchids, flowering anthuriums, etc. The judge, however, considered that even if these were left out it would still be entitled to first prize. Mr. A. J. Watkins, gardener at the Horticultural Gardens, came second with a very pretty bank and Messrs. Manton Bros. very close behind. Mr. J. Cotterill put up a magnificent bank, but the judge declared him out on account of there not being sufficient chrysanthemums in it. These banks were quite a feature of the show and tended to relieve the monotony of the other sections.

Now for the cut flowers, and here is where the show excelled. They were all staged on one long 8-foot broad table in the middle of the hall, the high vases and sprays interspersed with palms in the center, single flowers outside, the effect of which was very fine and quite a new departure from the old order of things.

The finest exhibits as to quality were shown by J. W. Fox, gardener to A. G. Ramsay, Esq., of Hamilton, who staged 25 distinct varieties and 12 ditto, taking the medal for the former and first for the latter. They were all perfect flowers of their kind and all of large size; it was a fine exhibit and it will give the boys here a little stimulus; we like the Hamilton boys first rate, but we don't want them to come down and capture our medals, there will be some tall fighting for it next year I opine. In Mr. Fox's collection were Moseman, A. G. Ramsay, Ada McVickar, Josephine Scheldt, Louis Bohmer, Kioto, Elkhorn, Excellent, Col. H. M. Boies, Mrs. E. W. Clarke, R. Flowering, Domination and others. Messrs. Spears & Muston were second on the 25 and third on the 12, and Mr. R. Mearns was third on the 25 and second on the 12. Messrs. S. & M. showed some fine blooms of Violet Rose, Mrs. E. D. Adams, G. W. Childs, Chicago, Triumphant, Pur-

itan, O. P. Bassett, W. H. Lincoln, etc., and Mr. Mearns put up some very fine Hicks Arnold, Dawn, DeWitt Smith, H. A. Mandeville, etc.

Mr. Wm. Scott, of Buffalo, sent over exhibits in these two sections, but they labored under the disadvantage of having only just been unpacked before being judged, they were in better condition on the last day of the show than the first; it was a magnificent exhibit and would attract attention in any show in the country, send them a day ahead next time brother Scott. Mr. F. G. Foster, of Hamilton, also brought down some fine specimen blooms, but did not manage to get in first with any of them, but I hear he exhibited more for the sake of getting Mr. Fox to bring his flowers than for the sake of getting prizes himself. Mr. F. Francis, of Oshawa, brought down an exhibit embracing nearly all the sections in the class, but did not succeed in getting there to any great extent. Mr. H. Dale, of Brampton, also put up a first rate exhibit, especially in sprays.

Mr. W. J. Laing showed the best specimen yellow, W. H. Lincoln, as big as a sunflower and also took prizes for 12 blooms in vase white and 12 ditto pink. Messrs. Manton Bros. had a large exhibit of good bloom.

After the sections had been judged separately each exhibitor's whole lot of blooms and sprays were arranged en bloc and judged again for the best exhibit as a whole. The judge sifted them down to two lots, that of Mr. Fox and of Messrs. Spears & Muston. Mr. Fox's lot were all good flowers but lacked quantity. S. & M. had entered in nearly every class and had the quantity and a great deal of quality too, enough to give them four points more than Mr. Fox, they were therefore awarded the much coveted gold medal.

The competition in the class for designs, etc., was spirited and some very fine pieces were put up. Mr. C. Arnold took the cup for the most artistically arranged center piece for dinner table and first prize for funeral design (any flowers), first for hand bouquet (chrysanthemums), and first for basket (any flowers). Mr. W. J. Laing took first for funeral design (chrysanthemums), and first for basket (ditto). Mr. J. Cotterill took first for the best decorated mantel. Other exhibitors taking prizes were Messrs. Manton Bros., A. Westwood and H. Dale.

Now if I were an expert on roses I could give you a column or two concerning the showing made by the three principal growers here, Messrs. J. H. Dunlop, H. Dale and Spears & Muston. Every one almost knows what Toronto roses are, and these were no exception to the rule, they were all simply magnificent and the honors were pretty evenly divided between the three firms mentioned. In the section for a collection of 15 varieties, 3 blooms of each, Messrs. H. Dale and J. H. Dunlop competed and it took a smart expert to judge between the two, but Mr. H. Dale was awarded the silver cup. Why don't we hear more of Ethel Brownlow? A most beautiful rose, it was the sensation of the show, the ladies went into hysterics over it. Mrs. Moyes, of Bedford Park, Eglinton, showed a sport from Marcelle Niel which was awarded a certificate of merit, it has the form, color and scent of the Marcelle with a coppery pink tinge on the edges of the petals.

Carnations did not make a large exhibit, Mr. J. H. Dunlop carried off all the firsts, H. Dale, Spears & Muston and

Manton Bros. dividing the others. Daybreak, Silver Spray and Fred Dorner figured largely. Daybreak is the supreme favorite.

Messrs. Pitcher & Manda's lot of chrysanthemums not for competition attracted much attention, especially from the gardeners and florists, as also did the lot from Nathan Smith & Son, of Adrian, Mich. Among the former I picked out as being worthy of special notice Mrs. Libbie Allen, Geo. Vair, Miss Meredith, Master of the Garden and No. 17. Among the latter were some magnificent specimens of sorts sent out last year and several seedlings not yet named.

I must not close these notes without mentioning the judges. The cut flower judge was Mr. R. Flowerday, of Detroit, and the judge on plants was Mr. C. Swift, of Rochester, and two better men could not have been found for the purpose. Of course there were some disappointed exhibitors, was ever a show held without? But it was the general opinion that more expert or conscientious judging was never done in this city.

The decorations which were put up under the direction of Mr. Chas. Arnold were certainly the finest we have had yet and were admired by all. A large Japanese umbrella hung upside down high up in the center of the hall was the focus for numerous festoons of evergreen in all directions on which lanterns were hung, lanterns were also hung on the sides of and under the galleries, about 2,000 being used. The decorations as they stood were afterwards let to two societies who are having entertainments in the hall this week.

I think now that I have come to the end of my tether, but it is hard to tear oneself away from all these aesthetic beauties. However, no doubt others have similar beauties to tell of and modesty forbids me to take up more space this time. E.

Baltimore.

"The day is cold, and dark and dreary; It rains, and the wind is never weary," "would have made a first-class description of the opening day of the chrysanthemum show. The weather was bad with no qualification. The rain fell in a steady unintermittent downpour from morning till evening while the wind at times was high enough to make carrying an umbrella anything but pleasant or certain work. With all though there were two surprises for the club. The first was the number of exhibits and the quality of them. The second was the way the people turned out through the bad weather to enjoy the feast of loveliness spread out for them on the floor of the Cyclorama building. The first day was entitled Governor Brown's day on the program of events, because his excellency the Governor of Maryland, Hon. Frank P. Brown was to have opened the exhibition. Owing to his unavoidable absence President Fraser performed the duty. The special features of the day were the table and mantel decorations. The only entries were Messrs. Samuel Feast & Sons and Halliday Brothers. To judge between two such exhibitions of taste and fine materials and skill with which to show it would be a hard matter. The judges evidently found it so, for they lingered over the tables and mantels longer than the number of exhibits would seem to indicate any necessity for doing. The Feast table had for centre a mound of High Widener and Hardy "mums" with sprays of adiantum show-

ing through here and there and a broad band of adiantum around it. From the centre broad ribbons extended to the edge close to every second plate, terminating in bows holding three long stemmed Wideners each. It was a poem in yellow and white and if any criticism might be allowed it was a trifle, just a trifle, overdone in the quantity of flowers used. It was awarded first premium.

Halliday Brother's table was as beautiful as possible except that it was a very little wanting in quantity of decoration. The center was a mass of splendid W. H. Lincolns with long and short stem single flowers of the same variety at alternate plates. Second premium was awarded them.

Feast also took first on mantel, massed at one side with tall arecas and ferns, on the other with *Dracaena terminalis* and adiantum. A tall vase of Mrs. Frank Thompson on one side of the shelf and a low vase of Ada Spaulding on the other, with adiantum freely used between and on the top, completed a very pretty arrangement. Halliday Brothers used small *Cocos Weddelliana* and asparagus instead of adiantum, with a trailing mass of *Kioto* on the side opposite, a very tasteful arrangement but one which the judges considered only worthy of second place.

The cut flowers and cut flower work were the best best yet seen at a show here, the funeral designs particularly being very graceful. First on them was given to Halliday Brothers for a pair of palms laid through a wreath of lily of the valley, Second to Samuel Feast & Sons for a large wreath of L. Canning with a band of heliotrope and valley tied with a bow of lavender ribbon lying on a large plaque of ivy-leaves. Even the third, a wreath of ivy-leaves with a bunch of Mrs. Robert Craig tied with white ribbon, shown by F. G. Burger, was very tastefully arranged. The basket that took first was a large flat oval with square handle filled with *Cypripedium insigne*, valley and Ada Spaulding chrysanthemums beautifully arranged. The one that took second was filled with American Beauty and La France buds and valley.

The dinner table design that was awarded first premium was a basket of fine W. H. Lincolns.

Among the cut flowers, the finest flower in the room unquestionably was a bloom of Secretary Parson shown by Halliday Brothers. Among the host of seedlings shown by Lindley Huggins "Hamline," of special merit named by him "Hamline." To say that Mr. W. K. Harris, one of the judges, pronounced it a very deserving novelty, is all that need be said except to endeavor to describe it. It was of course very large, also perfectly double, so that the lower petals curling under made it a complete sphere, while the centre did not show at all. In color it was crimson and bronze. Samuel Feast & Sons had a display of seedlings that, a few years ago would have been thought well worthy of names and descriptions, but the field is so well filled now, that it was passed by with scarcely a word, and the first premium given to Mr. Huggins. Another of Mr. Huggins' seedlings that seems worthy of mention was a white, named Robert Halliday, being in every respect a white Louis Bocher, having the stout stem and foliage of that variety, and resembling it in bloom but being a pure white in color.

The closest competition was for the silver cup offered by Mrs. M. J. Thomas for the best 12 long stem flowers of "M. J. Thomas." There were five entries and



VIEW AT THE TORONTO EXHIBITION, SHOWING CENTER TABLE.

the premium was awarded, after serious consideration, to Messrs. Halliday Brothers, for a vase of flowers which were really perfect in size and form, though some objections were heard to the award on the account of the blooms having a pink tint due to being too long out.

Taken all together the cut flowers were grand and it seems hard to believe that they could be much better either in form, color or size than they were.

The display of cut roses was very good though there were but three who competed. Mr. John Cook showed very fine Kaiserin Augusta Victoria, a white, like Bride but with much stouter stem and heavier foliage. His La France and Perles were very good too, but those of W. M. Stirling were nearly up to them.

A new feature of the show was the "wild flower" prize offered by Messrs. Brackenridge & Co. Although there was but one entry, by Mr. Campbell Waters, it was such a complete one that it attracted a great deal of attention including as it did perfect specimens of nearly one hundred plants found growing near Baltimore.

Brackenridge & Co., made the only exhibit of orchids.

The judges were Messrs. John Westcott, Rob't Kift, Edwin Lonsdale, Rich. Heron, John Nesbit and W. K. Harris, all of Philadelphia.

After a laborious day, owing to the usual error of placing exhibits in the same class far apart on the floor, they gathered with the club around a table spread with delicacies and decorated with "mums" to enjoy a fitting reward for tiresome duty performed. After the inner man was properly satisfied, President Frazer addressed a few words of welcome to our guests, then Mr. Wm. B. Sands, the orator of the day, made a stirring speech and proposed as a toast "The Society of American

Florists," which was happily responded to by Mr. Wm. R. Smith, praising Baltimore, its flowers, and ladies, as well as its flower show. "Our Judges" was responded to by Mr. Jno. Westcott, with some very good advice as to managing the show. "Philadelphia" was responded to by Mr. Rob't Kift. During his remarks Mr. K. electrified the boys by saying that he had seen today some of the finest chrysanthemum flowers he had ever seen. "Horticulture in Europe" was responded to by Mr. Hy Bauer. "Maryland," by Mr. E. A. Seediwitz, with many interesting reminiscences. "Roses" by Mr. Edwin Lonsdale, who after an interesting address favored the company with a song. "Orchids," by Mr. Wm. McRoberts, who prophesied the replacing in popular favor of the chrysanthemum by the orchid, as it had in its turn replaced the stiff and artificial beauty of the camellia. Mr. Jno. Walker then favored the boys with one of his inimitable songs. "Mums," responded to by Mr. Lindley Huggins, in a regular "Depew" oration. Mr. W. K. Harris was then called out and set the table in a roar. "Early days of floriculture in Baltimore," responded to by Mr. Jas. Pentland, the Nestor of the trade; this by one of our oldest members brought out a regular ovation. Next came a song by Mr. Hugo Walther. "Associate members," Dr. Horace A. Brooks made response full of confident expectations of the successful future of the trade here and its effect upon the community.

The complete list of awards follow: The J. C. Vaughan gold medal, for best 10 plants grown in 6 inch pots, Halliday Bros. Pitcher and Manda's silver cup for best 12 cut blooms on long stems, introductions of '92, Halliday Bros. Spaulding special, Halliday Bros. Prest. Fraser gold medal, H. P. Quick. Mrs. M. J.

Thomas silver cup, Halliday Bros. Burnside special, Samuel Feast & Sons. Halliday Brothers gold medal, Samuel Feast & Sons. John H. Shaw silver cup, Lindley Huggins. E. A. Seediwitz special, C. Hess. Brackenridge & Co's. special Campbell Waters. Dinner table decoration, Samuel Feast & Sons 1st, Halliday Brothers second. Mantel Decoration Samuel Feast & Sons first, Halliday Brothers second.

In class A., commercial, Halliday Bros. took first for 12 specimen Japanese, 12 specimen Chinese, 12 specimen Chinese or Japanese, 6 specimen Chinese or Japanese, 6 specimen anemone flowered and one specimen Japanese. James Simpson took first for 6 specimen Japanese; Wm. Lehr for 1 specimen standard, H. Frederick for best Maryland grown seedling, and H. Bauer for fan, pyramid, or odd shape.

In class limited to 6 inch pots, H. Bauer received first for 12 specimen Japanese, C. Hess first for 6 specimen Japanese, Jas. Simpson first for 1 specimen Chinese, and Halliday Bros. first for 12 single stem.

Limited to 8 inch pots best group of 25 plants, Halliday Bros. first.

Collection of orchids, Brackenridge & Co.

Carnations, Wm. Lehr first for 6 blooms 6 varieties and for one specimen carnation. Jno. Cook was first for 6 specimen palms, six varieties, 1 specimen palm, and 6 ferns in variety. For 25 decorative plants F. G. Burger was first.

In the amateur class C. M. Wagner was first for 1 specimen Japanese, and 1 specimen Chinese. In the class providing for amateurs without gardens, G. O. Burg was first for 6 specimens, 6 varieties, and for specimen standard. Prize for any plant showing careful cultivation was awarded to Mrs. A. H. Field.

Cut flowers. Halliday Bros. first for 25 blooms, 25 varieties, largest bloom,

any variety, vase of white, vase of yellow, vase of pink, vase of dark colors, and vase of 24 blooms, any color. John Cook was first for display of roses, vase of pink roses, vase yellow roses, vase of white roses, vase of red roses, and also for display of any kind of cut flowers. C. C. Erdman was first for 200 violets, and Wm. Lehr for display of carnation blooms, and largest specimen carnation flower. Halliday Bros. were first for funeral design and basket, and R. Patterson first for dinner table decoration.

The competitive designing plan fell through at the show on Wednesday, owing to the absence of competitors, no one but Robt. Halliday, Jr., showing up. There was only one entry for the wedding design, by the same gentleman, a very pretty enamel basket filled most artistically with L. Canning "mums." and American Beauty buds.

On Thursday came the special premium of Mr. Geo. W. Abell for bridal canopy or bell, competed for by Messrs. Halliday Bros. and Messrs. Brackenridge & Co. Halliday Bros. took first with a bell of white "mums" with a spray of Grace Wilder carnations drawn across the front of it, hung above a recess formed of *Areca lutescens*. Brackenridge & Co., who took second, used tree ferns mostly, in forming the bower, which was considerably larger than the other, and had a bell shaped canopy suspended from a slender arch of smilax, the canopy being smilax with L. Canning "mums" in sprays of ten or twelve blooms, in it.

The premium for original design of chrysanthemums, was awarded to R. & M. Patterson for a piano lamp six feet high, the stand and globe clear yellow, the shade a very delicate pink, formed of several pink varieties, with L. B. Bird around the edge, and just enough adiantum peeping through the flowers to give a pretty lace-like effect, at a short distance; altogether it was the best work of its kind shown, not only on Thursday, but during the week. Halliday Bros. took second on a butterfly with yellow and white wings and pink body.

The most important event on Friday was awarding the premium for bridal bouquet, with four entries. Halliday Bros. took first with a bouquet formed of Bride buds, valley and asparagus. F. C. Burger second, with a loose bunch of Brides. Sam'l Feast & Sons third, with Brides and adiantum. The Geo. Wm. Klein special for center piece was awarded to R. & M. Patterson, for a mound of L. Canning, with a bunch of American Beauties in the centre. Sam'l Feast & Sons offered a basket of Ada Spaulding, Perle and American Beauty with Watteville on the handle, which was admired so much by the judges that they gave it a special premium.

The corsage bouquet premiums were awarded as follows: Sam'l Feast & Sons first, with one composed of six American Beauty buds; Halliday Bros. second, with a cluster of six Mermets; R. & M. Patterson third, with twelve Meteors, Roman hyacinths and adiantum arranged in a loose cluster.

The judges were leading society ladies, three being invited to act each day, after the first day of the show, when the Philadelphia brethren helped us out, and though they apparently did their best to decide fairly, yet there was ten times the kicking done about decisions that has ever been known at an exhibition here, several members actually giving as a reason for not competing for the prizes after the first day the fact that the

judges were too uncertain in their views. With all, though, there seems little or no ill feeling on the part of defeated exhibitors, and the spirit of unselfish generosity among the members was shown by one, who was arranging a special exhibit, lending his only competitor in the class, asparagus and flowers of which he was short, to complete his display.

The appearance of the huge amphitheatre from the entrance was very striking. The gallery was transformed into bowers of evergreen, where a number of the members had booths for the sale of cut flowers. The musicians were hidden in a thicket of spruce trees, and the whole of the great circular floor seemed to be surrounded by forest, in fact the entire effect was that of a large circular opening or flower covered glade in some dense woods, with electric lights for the noonday sun, and music and beauty on every hand.

Perhaps the most striking exhibit on the floor was the twenty-five plants arranged for effect, which took first, by Messrs. Halliday Bros. just inside the main entrance; but an umbrella trained Kioto, shown by Hy. Bauer, attracted the popular eye as it stood perched on a tall stand near the central group of palms with its long stem supporting the umbrella edged with golden balls high out of reach.

Among novelties just out the cut blooms of Harry Balsley in Pres. Fraser's vase of pink were the finest of the color, a beautiful, soft, shell pink; the flowers were eight inches in diameter and the half inch broad petals very strongly incurved. Another novelty worthy of special mention was C. F. Whiting, shown by Halliday Bros., a very large flower with the petals of the lower or outer half of the flower rolled into quills showing a very pale yellow, while the central part was formed of flat recurved petals showing a rich shade of red brown. In yellows, Mrs. M. Simpson, with very broad strongly incurved petals, seemed extra desirable, also L. C. Madeira, as clear a yellow as the former, but of perfectly globular shape and having the quilled petals as thickly inserted as possible. There were many others, among those shown by our own men and others that were so nearly equal to those already mentioned in quality as to deserve description, but space would fail. Niveus, from N. Smith & Sons, of Adrian, Mich., was a fine white, and many of Spaulding's, Vaughan's, Hill's, Thorpe's and others' novelties were very fine, in the main.

Jno. McGowan sent carnations, New Jersey, flat, broad petalled, clear dark scarlet, fully three inches across; another fully as large, a decided purple, named Purple Beauty; Old Rose, Fred Codie and Iago, the first a very peculiar flesh pink, the second white edged with irregular lines of purple, and the third a very deep crimson.

The premium of twenty-five dollars in gold for essay on the refining influence of flowers, offered by Mr. I. H. Moss, was awarded to Wm. F. Wheatley, Jr., Elliott City, Md., for a very well written composition.

At this writing the show seems the greatest success financially, ever held in Baltimore. The weather, with the exception of the first day has been perfection, and the attendance was so heavy on Wednesday and Thursday, that part of each day four members had to stand out at the entrance with tickets, to keep the ticket office from being completely

choked. The whole thing has been a brilliant and popular show and with inspiring music, on the program of which was a stirring march composed by Mr. Chas. F. Feast called the "Chrysanthemum March," steady attendance and marked improvement in exhibits, all combined to make it an occasion long to be remembered, and the yell of the club, "What's the matter with Bob Halliday? He's all right," will indicate the feeling of the boys for the chairman of the exhibition committee, and in fact all its members. MACK.

Buffalo.

[CONTINUED.]

Our annual chrysanthemum exhibition came to a close on Saturday evening last and though we can not call it a financial success I regret to say, yet it was most creditable to the able management and the exhibitors as well. A better display not only in chrysanthemums but also in stove and greenhouse plants, fine palms and dracenas, it would be impossible for Buffalo or any city of its size to put up. Yet these shows do not draw the million and we have to be satisfied with the patronage of a very few thousands of our most cultivated people. Perhaps the management made a mistake this year in not once more occupying our beautiful and spacious Music Hall where we have been for several years past. To cut down expenses the show was held in Thespian Hall, a much smaller place, and where unfortunately the most attractive part of the show, the cut flowers and designs, had to be exhibited in the basement away from the sound of music. Depend upon it, general effect has much to do with these exhibitions, more than the individual merit of any exhibit, and all should be on one floor if possible. I notice in the report of the shows in the larger cities that the same varieties came to the front all over the country and so it was with us. The ten chrysanthemums that made the best bush plants here were W. H. Lincoln, Minnie Wanamaker, Hicks Arnold, L. Canning, Louis Boehmer, Margaret Graham, Ivory, Cullingfordii, J. C. Vaughan and Ada Spaulding.

On Friday evening a very pleasant hour was spent in christening a new flower raised by Professor Cowell. The Bohemian Sketch Club were invited to baptise the infant. At the Club's rooms the ceremony took place. Its parent, Mr. Cowell, did not state its pedigree and only traced its history to the time when it was but three inches high and then called on its nurse (W. Scott) to continue its life history from the time he planted it in four inches of soil in July until the present week, when it measured ten inches in diameter. The president of the Bohemian Club then formally christened it "The Bohemian." Mr. Fancourt, of Wilkesbarre, very wittily proposed the darling's health and prosperity and it and we were duly sprinkled. After that an informal welcome was given to friends and guests from out of town and a very pleasant time was had.

In the chrysanthemum plant classes all the first premiums except on standards and single specimen went to Wm. Scott. He taking ten firsts in this section. The seconds and thirds in the same classes were captured by Messrs. Pickleman and Rebstock. Mr. Pickleman took first for specimen standard and single specimen any variety, firsts for 12 and 6 standards going to Mrs. G. H. Lewis. For display of orchids Scott was first and Pickleman



A GROUP OF PINK CHRYSANTHEMUMS.

1. Mermaid. 2. Waban. 3. Mrs. Gerard. 4. Ed. Hatch. 5. Mrs. J. W. Morrissey. 6. Viviani-Morel. 7. Exquisite.

second. In palms Mrs. Lewis took first in each of the three classes, Messrs. Pickleman, Rebstock and Scott taking the seconds and thirds. For dracaenas Mrs. Lewis was first on 12 and 6 specimens, Mr. Rebstock coming out first on single specimen. In ferns Mrs. Lewis was also first, while Mr. Scott was first on begonias. For best collection of stove and greenhouse flowering plants Rebstock was first, Pickleman second and Scott third. For best collection of stove and greenhouse foliage plants Mrs. Lewis was first, Rebstock second, Pickleman third. For best collection of variegated foliage plants Rebstock was first, Mrs. Lewis second, Pickleman third.

In chrysanthemum cut blooms, open to growers only, Grove P. Rawson was first on 25 blooms and 12 blooms, and J. F. Cowell for single bloom, the seconds being taken by Scott and the thirds by Pickleman, Rebstock and G. Fancourt. For best collection of blooms of varieties of '91 and '92 first went to Nathan Smith & Son, second to Scott and third to Rawson. In the cut bloom classes open to all winners of firsts were G. P. Rawson, W. Scott and W. Anderson.

In cut roses Rawson was first on Mermet, La France, Bride and Perle, Rebstock taking first for Am. Beauty, and the seconds in the other classes. For general display of not less than 100 blooms Wm. Scott was first, Adams & Nolan second. For 36 roses, Scott first, Rebstock second. For 100 carnations Webb Bros. were first, Rebstock second. J. Breitmeyer & Sons, of Detroit, exhibited a magnificent lot, but they came too late for competition.

In floral arrangements Scott was first

for vase of chrysanthemums, chrysanthemum design, dinner table center piece, mantel decoration, wedding design, cross, anchor, standing cross and anchor on base; Rebstock for basket of flowers, piece of artistic floral work and pillow; Adams & Nolan for plateau of chrysanthemums, bride's bouquet and wreath. S.

Pittsfield, Mass.

The Gardeners' and Florist's Club of Berkshire county have every reason to be proud of their first chrysanthemum show, which took place at Pittsfield, Nov. 15, to 18.

The Coliseum centrally located on one of the broad main streets of the city was the place secured for the display. This building was formerly a skating rink and its interior is rough and not exactly the best place in the world to show plants and flowers to advantage. But with a liberal use of green and other decorative material and plenty of electric lights, it was transformed so that its interior presented quite an attractive appearance.

In the center a band stand had been erected and here was stationed Clark's orchestra, screened almost out of sight by a belt of large palms, etc. These plants were part of the exhibit of W. D. Sloan, Wm. Griffin, gardener, and added greatly to the general effect.

The many private establishments of Pittsfield, Dalton, Lenox and neighborhood had been drawn upon extensively for groups of decorative foliage plants which were grouped to advantage and furnished that very necessary contrast to the masses of chrysanthemum colors, the

absence of which is so much to be deplored at most chrysanthemum shows.

Cut blooms were all shown on long stems in vases. Geo. Thompson, gardener to G. Searles, staged some grand blooms, taking first prize for all the large vases, the Mrs. John White cup, first for twelve specimen blooms, also first for best single bloom in the hall, W. H. Lincoln being the winning variety. His Neesima, Mrs. C. H. Wheeler, Cullingfordii, Ada Spaulding, Kioto and Domination were all well done.

Lowden & Son excelled on specimen plants, taking most of the first premiums in the different classes, and the Zenas Crane special premium for best six plants.

The groups of plants from Zenas Crane, E. Dolby, gardener, were good, taking first for ten specimens and first for six half-standards. His cut specimens were also very good, and took the Col. Cutting cup, first prize for twenty-four varieties, one of each, first for twelve Japanese, and the Mrs. Z. M. Crane prize for group of plants. Noticeable among biscuit blooms were H. E. Widener, Mrs. Irving Clark, Mrs. Langtry, W. H. Lincoln and Mattie C. Stewart.

Other chrysanthemum exhibitors were Mrs. Z. M. Crane, Nell Coven, gardener, who had some fine plants grown to single stem and bloom, Mrs. J. B. Crane, Robt. Johnston, gardener, who also showed good plants grown to single bloom, and took the Mrs. Zenas Crane prize for vase of cut blooms; Mrs. Wm. Pollock, Edward Price, gardener, whose group arranged for effect took first premium; Chas. Lanier, A. H. Wingate, gardener, who took the H. P. Lucas cup for four vases of cut blooms, and John White,

who made a fine display of plants and took the Mrs. Cutting cup and first prize for dinner table decoration.

Pitcher & Manda showed among other novelties, a new seedling, Mrs. Walter Cutting, a large incurved creamy white of fine form, which was very favorably received.

From Col. Cutting, the president of the club, A. P. Meredith, gardener, came a beautifully arranged group of ornamental and flowering plants which received the Thos. W. Weathered cup, a fine collection of orchids in flower which took the John White cup, also an exhibit of nepenthes and large specimen ferns all in splendid condition, and some finely colored crotons.

J. F. Morgan, J. F. Huss, supt., staged a nice collection of flowering begonias, stove plants, etc., taking first premium for five rare foliage plants and the special prize for twenty-five carnations in pots. W. K. Harris, W. D. Frigalt, showed an artistically arranged group of stove plants. Chas. Lanier's group of draenas, chrysanthemums, etc., showed up well and John White took the Col. Cutting cup and first prize for group of palms arranged for effect.

Some well grown plants of *Cypripedium* insignis from Mrs. W. Pollock were much admired as were also Mrs. J. B. Crane's group of decorative foliage plants, and the collections from Zenas Crane and M. Finaghty. To Zenas Crane was awarded first prize for six pans of mignonette. The Finaghty prize for best specimen window plant was taken by G. McArthur.

The show of cut roses was first-class. All the leading varieties were shown, Z. Crane, Col. Cutting, Geo. Thompson and John White taking all the premiums. To Z. Crane was awarded the Gamewell prize for collection of roses. The Mme. Pierre Guillot from Col. Cutting were unusually large and handsome. F. B. B. Sears showed a splendid collection of carnations all well grown. Carnations from G. McArthur, Col. Cutting and Geo. Thompson were also good.

The only drawback to the full success of the show was the weather, which was stormy much of the time and prevented that large attendance which might otherwise have been expected.

Washington.

The chrysanthemum, queen of the autumn flowers, attended by her royal court, is at home to her many friends at the Washington Light Infantry Armory, the temporary place for three days. It is the second annual exhibition of the Washington Florist Club. Experience is a good teacher, and our florists seem to have profited by it this year, although the show of last year was a decided success the first three days. The promptness and dispatch with which everything was gotten ready and the arrangement of exhibits both as to the effect and convenience for the judges to perform their duties with as little labor as possible proves that each year brings its improvements, and that the Washington boys are apt scholars. They could not get possession of the hall before Monday morning and everything had to be in position for the judges by 11 o'clock Tuesday. This seemed almost impossible, but our boys were equal to the occasion, every one put his shoulder to the wheel and by a united effort the hall, which but a few hours before was desolate, was soon changed into a bower of beauty, and presented a gorgeous display of the Queen of Autumn.

Upon entering the hall the first sight to catch the eye was two large tables filled with magnificent cut blooms, also a handsome basket containing over 50 blooms of H. E. Widener and Minnie Wanamaker, tied with old gold ribbon, making a grand and soft effect. Most of the Widener blooms average nine inches across. These were the exhibits of Mr. C. F. Hale. Then came two artistically arranged dinner tables, set for 12 persons, by the Washington Floral Co., with a background of the famous Capital Building of the Madison Square Garden show, by J. H. Small & Sons.

Looking to the left was a beautiful group of stove and decorative plants tastily arranged, probably the most creditable ever staged in this city, if not in this country. The five large columns in center of hall were banked with decorative foliage and flowering plants handsomely blended, the effect of which was very attractive, and was the handy work of Ed. Miller, Gude Bros. and N. Stüder. The southeast corner was decorated with a group of the finest grown chrysanthemums in the hall, showing the superior cultivative skill of Clark Bros. They were by far the largest and healthiest looking plants in the room, and were a mass of large well formed flowers. The south center portion of the hall was given to dinner table decoration. Decorations by Alex. Garden, which captured the first prize, was set for 12, having a centerpiece of La France and a garland of Perles. He formed a dining room by having posts of smilax and curtains formed of same, the decorating with palms, ferns and chrysanthemums attracting much attention. Another very handsome table in this row was the artistic work of N. Stüder. The table had three pieces, two of American Beauties and one of Meteors. Around the center-piece were loosely arranged pink chrysanthemums on a bed of fern fronds. The room was formed of chenille portieres draped with smilax and asparagus. The mantel and fireplace were handsomely decorated with roses, chrysanthemums and poinsettias, which took the first premium for the latter decoration. It was greatly admired by all. Just outside of this Mr. Stüder had arranged a garden with gravel walks and a mound of ferns in the center. In one corner was a bed of begonias in flower surrounded by selaginella. Another corner was carnations in bloom surrounded by the same plants. The two other corners had groups of chrysanthemums surrounded by small palms, callas, etc.

The United States Nurseries, of Short Hills, N. J., had a handsome display of some 40 varieties of fine cut blooms, which added greatly to our show, the display including many new ones. Another very attractive feature was two large expanded flowers of *Victoria regia*, two well developed buds of the same and a fine young leaf, all of which have been preserved in alcohol and looked very natural.

The display of roses, carnations, violets, bouvardias and geraniums was very fine.

Messrs. Clark Bros. had the leading feature of the show and captured the first prize for the best 12 specimen plants, also first for six best single specimens, and the first prize for best single specimen—*L. Canning*—which was of more than ordinary culture.

The first premium for 25 varieties, one bloom of each, was taken by Mr. C. F. Hale. The flowers were nearly perfect,

being large in size and of good color. This set would not take a back seat at a Gotham show. The second was awarded to Clark Bros. The next class of 12 blooms was also taken by C. F. Hale.

Roses: 12 blooms of American Beauty, first prize to N. Stüder; 12 blooms of La France, first to Clark Bros.; second for same to R. Bowdler. Prize for 12 white La France went to Clark Bros.; 12 blooms of Perle, first prize to Ed. Miller; second to R. Bowdler; 12 Brides, first prize was captured by R. Bowdler; Mr. Cadmus taking second. Catherine Mermet, first J. H. King; second Ed. Miller. Watteville, first to Clark Bros.; second to N. Stüder. Souvenir de Wootton, first to Clark Bros.; second Ed. Miller. Mme. Hoste, first Clark Bros.; second Ed. Miller. Meteors, first N. Stüder. Violets, J. H. King first; J. H. Morgan second. Carnations, collection of 12 blooms, E. Miller first; J. H. King second.

Brides bouquet, first to R. Bowdler. Hand bouquet, first to Alex. Garden. Basket of cut flowers, first C. F. Hale; second N. Stüder. Dinner table decoration, first to Alex. Garden; second to Washington Floral Company. Decorative plants, J. H. Ley first; E. Miller second. Specimen cypad, J. H. Small & Sons first prize. Amateur's prize, best display of cut chrysanthemum blooms, Mrs. Eaton first; Harry Burton second. Ed. S. Schmid had a very fine display of florists' supplies and aquatic plants, aquariums and fish.

The show was a credit to the florists, and notwithstanding the rain it was well attended and many fashionable people promenaded the hall, enjoying the flowers and the fine music, which was furnished by the Marine Band.

C. LESLIE REYNOLDS.

Indianapolis.

Tomlinson Hall was a bower of beauty; the decorations of Truemper gave it a most unique and pleasing appearance. Indeed, the decorations, the plants and all the various exhibits are such a pronounced advance over former years that expressions of surprise are heard from all who have had the pleasure of attending and contributing to the former shows. This is as it should be; the question asked now is, can larger or finer blooms be produced? The cut exhibits were certainly beyond precedent. No wonder the query is so often propounded, can they be done better? As is the custom at Indianapolis the mayor of the city opened the show with an address of welcome; this year was no exception to the rule. Mr. E. G. Hill was billed for a response, but owing to cold, accompanied with hoarseness, Mr. E. A. Wood, of Boston, performed that service in a splendid manner, reflecting credit not only upon himself but upon our chosen profession by his elevating thought and tone.

The central bed was a magnificent grouping of palms from the establishment of Mr. Anthony Weigand; the plants were models of cultural excellence and reflect great credit for their clean, bright appearance. In front of the stage was a great bank of chrysanthemums in various heights, the whole bed adding greatly to the appearance of the hall. Nanz & Nenner, of Louisville, Ky., arranged a table of vases—60 in number—that was an attractive feature of the show. The exhibit consisted of beautiful roses, anthuriums, chrysanthemums, mignonette, bouvardia and other equally attractive flowers. The table occupied by their exhibit commanded universal attention.

Roses were out in great numbers, the contest being very spirited and of great excitement. Nanz & Neuner were first on American Beauty and La France, second on Catherine Mermet, Bride and Perle. Honorable mention also for Augustine Guinoiseau (white La France), Meteor and Mme. Pierre Guillot, there being no classes for these varieties. W. W. Coles was first with Mme. Caroline Testout, for the best new variety; Hill & Co. second for Kaiserin Augusta Victoria. W. W. Coles first for Gontier, Bride, Mermet and Perle des Jardins, second for American Beauty. M. A. Hunt won first for the best display of roses (a special prize offered by the Indianapolis Water Works Co.). His blooms were superb and deserved the prize bestowed. He had magnificent Meteor, Niphetos, Perle, Sunset and Mermets, Mr. John Burton's new rose American Belle was received after the awards on new roses had been placed. This new rose was the center of a critical crowd of florists, each inspecting and passing upon it from his individual point of view. It was awarded a certificate of merit.

CARNATIONS.

As was to be expected Fred Dörner made his best and largest exhibit at his own show, and the vases containing his newer varieties were marvelously beautiful. There were eight entries for best new carnation, 10 blooms of each. The variety Spartan (Dörner) won. Honorable mention was given Snow Queen (John Hartje), a most magnificent pure white, of first quality, strong stem and perfect calyx. This will be heard from in the future. Honorable mention to Edna Craig. Best 50 white, Silver Spray, to John Hartje. Best 50 pink, Wm. Scott, to Fred Dörner. Best 50 red, Richmond, to the same. Mr. Dörner's carnations have been described so often that descriptions seem unnecessary, save to remark that Mrs. Reynolds, Mme. Albertaine and the winners in their classes have a future before them commercially.

CHRYSANTHEMUMS IN POTS.

These were fine, magnificent, sustaining the reputation of those two eminent growers Messrs. Henry Reiman of Indianapolis and Richard Witterstaetter of Cincinnati. The leading varieties grown were E. G. Hill, Frank Wilcox, Eda Prass, G. W. Childs, B. Schultzes, Puritan, Kioto, M. Boyer, Louis Bochner, Mrs. Maria Simpson, Joseph H. White, Vivand-Morel. These varieties can be depended on for good specimen plants. The awards were in the order named H. Reiman, Richard Witterstaetter, E. G. Hill & Co. Best 3 pink R. Witterstaetter, 1st; H. Reiman 2nd, A. Wiegand 3rd. In whites, R. Witterstaetter, A. Wiegand, H. Reiman. In yellow, R. Witterstaetter, H. Reiman, A. Wiegand. In single specimens, any color, Reiman was first.

The competition for single specimen flowered plants on single stems in 4 and 5 inch pots was quite hotly contested. They were all nicely arranged in semi-circular form around the aisle bordering the central bed of palms. The awards were made in the order named, Berterman Bros., John Hartje, E. G. Hill & Co. Best 50 single stemmed plants, 1st John Hartje, 2nd Berterman Bros. John Hartje showed 50 fine single stemmed plants of Mrs. Geo. Bullock which were deservedly first.

CUT FLOWERS.

The centre of greatest interest was the contest for best 75 blooms, three of a kind. The awards were E. G. Hill & Co. first, Fred Dörner, second, Geo. R. Gause,

third. The blooms in the winning collection were greatly admired, and reflect great credit on Mr. David Rose, foreman for Hill & Co. The most noted varieties, from the three entries were George R. Gause, Mrs. Morrissey, H. E. Widener, Mrs. M. Simpson, Mrs. R. Craig, Ivory, O. P. Bassett, Ed. Hatch, America (a seedling) Cvrus McCormick, Eva Hoyt, Mrs. Lay, G. W. Childs, Mermaid, Potter Palmer, H. Cannell, Emily Dörner, Louis Bochner, Clara Berterman, Etoile de Lyon and Minnie Wanamaker. No one desiring exhibition cut flower varieties will go a miss in growing this list.

Best yellow 12 blooms, variety H. E. Widener, 1st to E. G. Hill & Co. Best 12 white variety Minnie Wanamaker, Berterman Bros. Best 12 pink, variety Vivand-Morel, Henry Reiman. Best 12 fancy variety Autumn Queen. This is Mr. Dörner's seedling, and a grand incurring variety it is. This received certificates at Cincinnati and the same here.

THE SEEDLINGS.

The custom established last year of placing all seedlings in a room under number was carried out this year. It certainly is fair to all competitors. The entries were quite as numerous as at New York and Cincinnati. Several new ones not heretofore shown were present. The silver cup offered by John F. Miller, Esq., of Richmond, Ind., for the best 12 blooms of any variety certificated, or that won a premium last year and not yet disseminated, was awarded to the variety Maud Dean, exhibited by Hill & Co. The Quaker City Machine Co.'s, premium of \$50 for best chrysanthemum any color with privilege to name same, was awarded to E. G. Hill & Co., for a brilliant bright yellow (incurring) seedling.

Jno. Thorpe and E. A. Wood were the judges.

The seedlings created a great sensation. In the whole number of classes there were 42 varieties. The superb white variety of Nathan Smith & Son, Niveus, beat all comers, confirming what it had done in Cincinnati and Chicago. No yellow was shown in the general class, but the winner of the Quaker City prize, value \$50, is the finest yellow I have ever seen, superior to Golden Wedding; its name is The Challenge, and it will be years before it is beaten, let what may challenge it. It was shown by E. G. Hill & Co.

The best pink is Adlai T. Ewing, fine strap petals. This is one of the best and most distinct varieties, from E. G. Hill & Co. Joey Hill was the best bronze. This is a crimson buff and bronze, and may replace any in this section; it was from E. G. Hill. Yet another from E. G. Hill is Maud Dean, which won the J. F. Miller prize for the best of last year, and this is a gem.

Parthenia (Nathan Smith & Son) won as the best white, a reflexed pure white of great merit. E. G. Hill received certificates for W. G. Newitt, a reflexed, broad-petalled white, and James Morton, globular white, with fine habit, both first class. A certificate was given for Irma, a lovely incurved pink, shown by H. W. Reiman. A certificate was given to Fred Dörner for Elma O'Farrell, a peculiar and beautiful reflexed salmon rose, with bronze under surface, a fine acquisition. A certificate was given to E. G. Hill for Anna Wood, a distinct reflexed flower, bright purple lake in color.

Certificates were also given to J. J. B. Hatfield, a deeply reflexed red bronze flower from H. W. Reiman, and to Pres.

Smith, shown by E. G. Hill. This ran Maud Dean very close on the Miller prize, and but for a weak flower among the 12 it would have been the winner.

Hill & Co. was awarded a certificate for Christabel, a superb large flower of the whorled type, having a tawny apricot center, the full face of the flower nearly pure white, the outer petals pronouncedly tinged with pink, rather negligible, but with distinct and beautiful. To wind up, the seedlings at Indianapolis are in the front rank every year and very close to the handwagon. J. T.

THE SUPPER.

About 40 invited guests assembled in the beautifully furnished club house of the Columbia Club on the night of the 16th.

The first thing to attract the eye after we were seated was Toast Master Carmody's verses:

When florists meet,
Each other to greet,
In times of recreation,
It is right, I think,
To eat and drink
And have a jollification.

So crack your jokes,
Like other folks;
Let joy be unconfined,
And from the bowl
That cheers the soul
Drink health to all mankind.

The welcome was extended by E. G. Hill, who extolled the profession, and who expressed great pleasure in receiving and welcoming the florists of Louisville, Cincinnati, Chicago and all the brethren from the different cities represented. E. A. Wood made response in a very entertaining, felicitous and feeling manner, expressing great pleasure for the many kindnesses he had received in the west.

John Thorpe spoke on "The Columbian Exposition," showing that his mind and thought were in and on the great work entrusted to his care.

"The Chrysanthemum Guard" were represented by their Captain, that fiercest and most ferocious of warriors, John Thorpe, commissioned Captain by Her Queenly Highness, Miss Jap. Chrysanthemum; Second Lieutenant Wood, that giant in stature from Bean-burg—a suburb of Boston; Orderly Sergeant Hill, who was commanded to enlist recruits then and there, and the alacrity with which the recruits came in almost changed his woe-be-gone appearance into a Dan-Farson-like cheerfulness. Captain Thorpe announced that 1st Lieut. W. K. Harris, the poet warrior, was armed to the teeth (with Pandanus Veitchii), ready to saw in two any who even whispered aught against our Sovereign Queen. He spoke of Surgeon Asmus and thought he should be present on so serious an engagement—with his eye on the menu card—as his services were likely to be needed.

The Captain spoke of rear guard Corporal Craig, who he affirmed was double armored with two coats of mail—ie., those two white shirts, and the umbrella he left in the cab at John May's door, one rainy night.

The Orderly Sergeant read the Captain's orders, one of which stated emphatically that it was instant death for any soldier of Co. "A." to refuse to obey orders; great stress was laid on this communication from the captain, for it brought instant obedience in every case. Fred Walz, Jake Schulz, Julius Peterson, Anthony Weigand, John Berterman, Elmer D. Smith and Henry Reiman talked

as freely as Poll parrots when called on. The issuing of the order had a contrary effect on Dr. Carmody, W. W. Coles, the Orderly Sergeant, and Lieutenant Wood (?).

After coffee was served and in the midst of the (cigar) smoke and the roar of battle, (chipp) sang a song, Coles spoke of the progress made and wrought the past year; Secretary Gillett spoke feelingly of our St. Louis allies, and the coming meeting of the Society of American Florists; Wm. Cook spoke of the west in its relation to horticultural art; Jake Schultz, of the great unfettered wild men of his native state; Frank Huntsman's subject was the great chrysanthemum battle, last week in Porkopolis; Mr. Killen spoke kind words for the profession; Robert McInnes sang a quaint old Scotch song; Elmer Smith declared his next seedling "mum" would be large, and deep enough to protect the breasts of Thorpe's noble warriors; Fred Dorner said his next chrysanthemum would be deep blood red, so that there would be no need of spilling any gore by any member of the company; Anthony Wiegand said that he and Hill had seen service in Germany, and had closed a great campaign in France about three years ago. Speeches were made by all present, the most eloquent being Sammy Thomson, Hardesty, Peterson and Dick Witterstaetter. About 2 a. m. Lieutenant Wood brought in our smallest and most timid, sentinel, Harry Sunderbruch, who had just arrived from Cincinnati. After coffee he told of the stirring times in his fortification. Lights were extinguished and the camp broke up.

NOTES.

There were three entries for five best standards, J. C. Vaughan, first; E. G. Hill & Co., second; George Gause, third. We all regretted the enforced absence of Mr. Pettigrew, who was seriously indisposed, and confined to his room at the Bates with a fever.

M. A. Hunt was feeling so out of condition physically, that he returned to his home before the supper. We greatly missed him.

"The Grotto" was constantly surrounded by an admiring crowd; it was some 15 or 20 feet in length, completely draped within with a filmy material like threaded snow-flakes, which hung some 10 inches in depth from the roof and walls; suspended among it were fine sprays of rare orchids and flowers of the pitcher plant (from Siebrecht & Wadley); the lower part of the cave was a labyrinth of gorgeous roses and chrysanthemums, all showing their bright colors to the best advantage under the numerous electric lights; this design was executed by Mr. Robert Jenkins, the leading jeweler of Richmond, Indiana, who is an artist in his own line as well as among flowers.

XERNES.

Erie, Pa.

The fourth annual show of the Erie Chrysanthemum Club was the best exhibition as far as chrysanthemums were concerned that the society has ever held. The hall was a blaze of color, relieved somewhat by palms, ferns, and general decorative plants. One great attraction was a rustic fernery built of virgin cork; this was built away up above the tables in the centre of the hall and the beautiful foliage of the ferns helped greatly to relieve the monotony of color; this was exhibited by Mr. H. Tong manager of the Massasauga Gardens.

The judges had a difficult question to decide which specimen had won the society's prize of a silver cup, value \$25, for the 6 best cut blooms of seedling chrysanthemum not yet in commerce. There were two competitors, Mr. Tong's "Mrs. C. H. Strong," a rosy pink variety with a silvery reflex twisting to form a perfect ball, with the point of each petal protruding, giving the flower a unique appearance; the other competitor was Mr. H. Niemeyer's "Nora Niemeyer," a large somewhat coarse petaled Japanese variety of a peculiar shade of color a dull bronze on a pale yellow ground. After 2 days deliberation the prize was awarded to "Nora Niemeyer," "Mrs. C. H. Strong" and "B. D. Schlandecker" received first class certificates.

The following is the premium list: In the classes for chrysanthemum plants: H. Tong took five firsts and three seconds; in the same classes H. A. Niemeyer took three firsts and five seconds. For geranium plants G. Schluraff took first; for 16 geranium plants H. Honeysett first, this was a grand collection. H. Niemeyer carried off first honors on carnations; plants and cut blooms, and first on 25 greenhouse plants. H. Tong took first on 50 greenhouse plants, first on begonias, first on ferns arranged for effect, and first on palms.

In the classes for cut blooms of chrysanthemums H. A. Niemeyer took four firsts; H. Tong taking one first and four seconds. For the best collection of seedling chrysanthemums not yet in commerce, H. Tong carried off first honors with a grand collection. Mr. H. Niemeyer took first on roses and second on cut flowers general collection.

In the class for designs Mr. G. Schluraff carried off first honors with a very creditable piece of work most artistically arranged. H. Niemeyer taking second premium. Bridal design, first premium withheld, second awarded to H. A. Niemeyer. Handle basket of chrysanthemums H. Tong first, H. A. Niemeyer second. T.

London, Ont.

As an exhibition the show here was a grand success, but financially it was a failure, owing to extremely bad weather. The hall was finely decorated and there was good music.

A large portion of the plant exhibit was made by school children. Early in June the society distributed over 1,000 plants among them, of which nearly 500 were returned to the exhibition. None were grown to very good specimens, and some showed neglect, but much interest was excited by the competition, and it will no doubt have an after effect. The hall was well filled, though outside of the school children there were but five exhibitors in the plant exhibit.

Messrs. W. S. & C. M. Greenway carried off the honors with chrysanthemums, taking all the firsts, both in plants and cut flowers. The remainder of the premiums were divided between J. Gammage & Sons and G. W. Rennie for palms, decorative plants, carnations and roses. J. Gammage & Sons secured first for mantel decoration, G. W. Rennie for table decoration, wreath and basket, and Z. Wells for cacti. New varieties of chrysanthemums were shown by Nathan Smith & Son, of Adrian, Mich., some of great merit. An excellent display of pottery, consisting of plain and fancy pots, fern baskets, vases, etc., was made by T. Wistow, East London; it was pronounced equal to any display made at the conven-

tions of the S. A. F. J. S. Pearce & Co. made an exhibit of bulbs and florists' requisites.

Mr. C. J. Tidy, of Toronto, acted as judge, to the great satisfaction of all.

W. G.

Newport, R. I.

The third annual chrysanthemum exhibition of the Newport Horticultural Society was held in Masonic Hall, November 8 to 11. As usual the Newport gardeners put up a splendid exhibition, the specimen plants being particularly fine, but the attendance was not what it should have been, election day and rainy weather combined proving a serious drawback. Thos. Beattie, Jas. McLeish, D. McManus and Alex. McLellan took most of the premiums on specimen plants, and on groups M. Butler & Sons, Jas. McLeish, Jos. Mayer, Wm. Nicol and John Allan were very successful.

M. Butler & Sons took nearly all the honors on cut blooms, and Gibson Bros. won on center piece for dinner table. J. S. Cowles showed fine groups of orchids, cannas and foliage plants. The exhibition closed with a ball which brought together a large number of the Newport gardeners and their families and was a big success in every way.

Galt, Ont.

The chrysanthemum show given by the Galt Horticultural Society was very successful, being a fine display. The principal prize winners were Geo. Brown, gardener to Mr. Goldie, D. McGeorge, F. Williams, J. Goldie, J. Wells, A. Common, J. Gardiner, F. Williams and Miss Graydon. The judges were F. Albrecht of Brantford and A. James of Guelph. S.

BRIDGETON, N. J.—The third annual chrysanthemum exhibition in the chapel of the First Presbyterian Church was a brilliant success. There was a fine display from the amateur as well as the professional growers, among the latter being S. Edwards & Son, Richard Bagg, W. H. Henderson, and W. K. Harris, of Philadelphia. Among Mr. Harris' blooms were some fine seedlings.

HARTFORD, CONN.—The chrysanthemum show of the Hartford Society of Horticulture was very successful. Robert Veitch, of New Haven, was judge, and among the prize winners were A. N. Pierson, of Cromwell, J. H. Baird, Jas. Smith, Jas. Coombs, Jas. Slocombe and Paul Marchand. The finest specimen bloom in the hall was Vivian-Morrel.

NEW ROCHELLE, N. Y.—A chrysanthemum exhibition was held here under the auspices of the Village Improvement Association, of which Henry Siebrecht, Jr., is manager. The affair was very successful. About \$250 was awarded in premiums, besides about 200 special premiums given to the school children for chrysanthemum plants grown by them.

PORTSMOUTH, N. H.—The second annual chrysanthemum show of St. Margaret's Guild was a brilliant success. The displays from M. E. Hutchinson & Co. and A. H. Stacy, also those from the private conservatories of Hon. Frank Jones and H. Fisher Eldridge were all good, some very fine cut blooms being shown.

FREDERICK, MD.—The Frederick County Floricultural Society held its third annual

chrysanthemum show at Junior Hall on November 10-12. In excellence as well as extent it exceeded all previous attempts, about 500 plants and 300 cut blooms being shown. E. A. Scidewitz, of Annapolis, acted as judge.

LYNN, MASS.—The third annual chrysanthemum show under the auspices of the Houghton Horticultural Society was held in Exchange Hall November 7-10. Many choice specimens from the leading growers of the vicinity were shown.

SCRANTON, PA.—G. R. Clark & Co.'s annual chrysanthemum show was held at Music Hall and lasted four days. The attendance was very large, the mantel and wedding decorations on the stage proving an immense drawing card.

WILKESBARRE, PA.—Mr. Ira G. Marvin's chrysanthemum show at Memorial Hall, under the auspices of the Women's Relief Corps, was highly successful. The arrangement of the hall was unusually attractive.

SAVANNAH, GA.—There was a chrysanthemum show at Catholic Library Hall on November 9-11. It was under the direction of Mr. A. C. Oelschig, the proceeds being devoted to charitable purposes.

WATERBURY, CONN.—The chrysanthemum show at the Armory here was a grand success. There were over 1,500 plants shown, among which were many fine specimens from Alex. Dallas and Mr. Snow.

WILMINGTON, DEL.—The fourth annual chrysanthemum show was held at the Y. M. C. A. Rooms, November 15-17. There was a very attractive show, good music and good attendance.

BURLINGTON, N. J.—The chrysanthemum show here was a success artistically and socially. L. R. Hancock, David Pearce, J. H. Lukens and Jos. F. Smith were the largest exhibitors.

MIDDLETOWN, N. Y.—The chrysanthemum show here was very successful. The display of flowers was made by Geo. S. Belding, the proceeds going to a local hospital.

NORRISTOWN, PA.—Mr. E. Metcalf's fourth annual chrysanthemum show was very successful, notwithstanding the inclement weather. Some fine seedlings were shown.

WALLINGFORD, CONN.—The annual chrysanthemum show here was very creditable. Messrs. Archie Vietch and Robt. Veitch, Jr., of New Haven, acted as judges.

NEW BEDFORD, MASS.—The fifth annual chrysanthemum show, under the auspices of the Gardeners' and Florists' Club, opened here November 14.

DETROIT, MICH.—Breitmeyer & Son held a chrysanthemum show at their place here last week, attracting a great many visitors.

JAMAICA, L. I.—The Linnean Club gave a pretty little chrysanthemum show at the Opera House on the evening of November 10.

BROOKLYN, N. Y.—Richard Shannon held a chrysanthemum show last week in his greenhouses, Greene avenue, near Franklin.

JANESVILLE, WIS.—Walter Helms gave a free chrysanthemum show here last week.



Seasonable Hints.

The propagation of the carnation is done during the cool months of the year. It may begin in October and extend to April or May. Many florists put in a few cuttings early but the bulk of the stock is started in December, January, February and March. Our own plan is to use our propagating table for sundry pot plants until convenient to get it ready for the sand. This may be sometime in November or not till the middle of December. We would rather not commence taking our cuttings too soon. First because we are taking shoots that will give us bloom in the middle of winter and second because our idea is the plants should be in a good healthy growing condition before used for propagating purposes. Pips taken from plants in the field or just lifted will root very well. We should not like to insure a lot of cuttings taken from plants very soon after being housed.

The pips may be readily rooted in a part of a house devoted to the production of flowers; but in such case the cool and shady part of the house should be selected. It is better however to have a separate house for the purpose, the aspect of which is immaterial. One with glass fronting to the north is probably the best. The bench is of the ordinary type with board, slate or tile bottom. It may be closed in beneath with shutters to let down in front to regulate temperature, but this is not essential. Enough hot water or steam pipes or end of flue should run beneath to give a gentle bottom heat. Clean the bench well and white wash thoroughly. Spread sphagnum or other light absorbent material over the bottom to the depth of about one inch and the bench is ready for the sand. The moss however is not absolutely necessary and is frequently dispensed with. We think it is useful to keep the sand from sitting through the cracks, to retain moisture and to modify the heat passing through it. Put the sand on to the depth of about three inches and make as level as may be. Dampen the sand and settle by hammering with a smoothed piece of light scantling some eighteen inches long. When pretty well firmed water till soaked through and through.

Avondale, Pa.

W. R. SHELMIER.

Carnation Crosses.

IV.

The important fact to one contemplating the production of seedling carnations is to determine what varieties will most likely produce the greatest proportion of good kinds. The crossing of almost any of the carnations in commercial use at this time will probably result in something of merit if not an improvement on the parent stock. But the intelligent application of the principles governing the process will undoubtedly add largely to the percentage on the right side of the account.

The first and vital point is to fix a high standard and work towards it. Let it be Chief Thorpe's if you please, but not a groping in the dark, without a light to show the signs of progress. Remember-

ing the law governing the form of plant, select for a pod parent such varieties as have some characters in growth and in form of flower as are desired in the ideal. Naturally, different growers will have different opinions and the requirements of all are not the same.

The extremes for a good pollen parent might be found in Caesar and Lizzie McGowan; the growth of the former being unusually full, branching much low down and yet not dense in foliage like Portia, long erect stems with many flowers borne single, the flowers very large and petals so numerous as to cause apprehension that they will force the calyx to split but which fear is fortunately not realized; the slender upright growth of McGowan bristling with shoots and finally covered with bloom is in marked contrast; continued popularity for commercial purposes is sufficient warrant of its value.

I have seen a number of seedlings from pods of both these varieties and they generally bear the stamp of their origin both in growth of plant and in form of flower. A very large proportion of the plants from Caesar as a pod parent have been found to produce double flowers. In fact I have never known of a single flowered plant with such an origin.

I have found Angelus a valuable variety to use for a pod parent. Its habit is somewhat like Grace Wilder. The stems being longer and slightly heavier, a free bloomer and quite certain to form seed. Grace Wilder unfortunately has not proven of any value for a pod producer. Its habit is excellent and it is a loss to be deprived of such good material to work on, but for some reason, probably in the formation of the pistil, it is almost impossible to get a seed that will germinate.

In the selection of a pollen parent the color of the flower will naturally be the first factor; after that the nearer it can approach to the ideal the better. Some varieties will be found to reproduce their color much more certainly than others.

C. J. PENNOCK.

"Mark How the Blood of Caesar Followed."

W. R. Shelmire has a seedling called Caesar that deserves special mention on account of its having what, so far as I know, is an entirely new characteristic.

Enthusiastic hybridizers often have the edge taken off their enthusiasm by a promising lot of seedlings coming out all single, and it is quite common for a great many of them to assume that form.

Mr. S. now has a batch of about 500 seedlings, the pods having been borne on Caesar, about one fourth of which have bloomed, and *every one has been double*. So sanguine is he that the rest will do likewise that he thinks he can put on the market a strain of carnation seed that will produce not only 80 per cent of double flowers, as has heretofore been claimed, but possibly 100 per cent, and moreover, the flowers thus far are all good, far better than the Marguerites and Queens.

I saw at the Philadelphia exhibition a seedling of Edwin Lonsdale's from Caesar which seen by gas light only, looked as if it might be a long step toward the yellow we all want. It showed the fine size and form of Caesar, about a good stem like it. No doubt Mr. Lonsdale's description of it, and his experience with Caesar as a mother, would be "mighty interestin' readin'!"

EDWARD SWAYNE.

LA SALLE, ILL.—Fred. J. King has opened a flower store here.

Our Telephone.

"Hello, central; can you connect us with Mr. Wm. Plumb at Madison Square Garden, New York?"

"Yes go ahead. Here is Mr. Plumb."

"Hello, Mr. Plumb have you got rested yet?"

"Oh, yes somewhat. What can I do for you?"

"This is the AMERICAN FLORIST. We hear that the Madison Square chrysanthemum show was again a big success. As you helped to manage it we thought you might be willing to give our readers the benefit of your experience these two years. What is in your opinion the most important requisite to make a floral exhibition financially successful?"

"Well, I should say that liberal and judicious advertising through the press, and by posters, is the most important point to be covered. Of course you must have a good exhibition to begin with. But a good exhibition alone will not bring in the money as we New Yorkers learned to our sorrow by our Lenox Lyceum experience. It is terribly discouraging to exhibitors and managers to put up a good show and have nobody to see it. In all such exhibitions there ought to be some one to attend to the press, to give interesting items as they occur every day; what has happened and what is going to happen, and help to awake the public interest. The public's money is what you want and you must depend mainly upon the press to help you to get the necessary patronage."

"What can you say about freetickets?"

"If you want to make a financial success you must not be too free with tickets. There should be a limit. Members of the association should be entitled to free admission but it is no use to go beyond that. If all the friends and acquaintances of the members get in free you will have no gate receipts and your show is a fizzle financially. If you induce people to exhibit you want to pay them their premiums and settle up promptly, otherwise you will make more enemies than friends. If you do not take in sufficient money at the gate, who is going into his pocket to pay deficiencies? Fifty cents is not much and every adult ought to be willing to pay it, with half fare for children, to see a good exhibition."

"Do you find that the custom of publishing a list of patronesses is any decided help in securing a good attendance?"

"Well if those people give cups and other special premiums to be competed for, it is a very great help indeed. They and their friends go to see just what that will bring out and this helps to create a general interest in the thing; but the names merely, I don't think they amount to very much. This was another little experience we learnt at Lenox Lyceum. We had plenty of patronesses, but they didn't show up, and promises amounted to nothing."

"Do you find many difficulties in the way in getting together a first-class exhibition?"

"Difficulties? I should say so. A man entrusted with this work should have plenty of time before hand to get things into shape. He should know well in advance just what he must prepare for. It is very disappointing to any one in charge of a show to receive entries from exhibitors engaging space and then at the last moment to receive a letter or telegram cancelling the order. And it is worse yet when they don't say anything at all about it. They just enter and that is the last

you hear of them. For instance in the last exhibition I had five entries for the Young premium from men whom you would suppose could be depended upon, and after I had taken the trouble to prepare tables for 1000 flowers found I had but 200 sent in. I tell you it comes rather tough on a man after he has got his plans all laid out. I refused an application for 500 feet of space because so much had already been spoken for, but had I known how many were going to back out I could have given it to him easily. And you often find that those who stay out are the worst critics. But a man can't make a suit of clothes unless you give him the cloth, can he?"

"What remedy can you suggest?"

"I think there ought to be an entrance fee to be deposited at the time of entry. If an exhibitor proposes to draw out he should be required to give notice of withdrawal at least a week before the show, or else forfeit his entrance fee."

"How about those who come in at the last moment and do not make any entry before hand?"

"That's a question. The exhibitors are the people who make the show. It's a mighty hard job to say just what you will do and what you will not do, but all the exhibitors should be concerned enough in the success of a show to assist the manager all they can. Their interests are mutual."

"In the last chrysanthemum show did you note what it was that seemed to furnish the greatest attraction for the visitors?"

"The roses were the great attraction. There were more people constantly round the roses than any other part of the exhibition. There seems to be something fascinating about the roses, this year especially. The people were greatly interested in the table decorations and designs. I believe we should provide for more of such features. They would attract. There is too much sameness about all these tables of cut blooms. Variety is what is lacking. An effort should always be made however to have designs made up so as to keep fresh, or to have them renewed frequently. Nothing detracts from an exhibition more than withered flowers. There is not enough green at our chrysanthemum shows. Groups of palms, in fact green of any kind, are necessary to break the monotony of color. As it is the display is nearly all flowers, with nothing to relieve them. The public do not seem to appreciate specimen plants. Nice well arranged groups are a great deal more attractive than specimen plants, and taste in arrangement counts for much. The people want something effective to take the eye, rather than trained plants."

"After a trial of both methods of staging cut blooms, on boards and in vases what is your opinion regarding their comparative desirability?"

"As far as keeping qualities are concerned the boards are the best. They are the cheapest, too, for the exhibitor, as the blooms keep in good condition throughout the show, which is not true of those shown in vases, especially if staged in a hurry. Still, flowers that have been properly handled before hand, if staged carefully, then examined every day and the stems cut frequently, will keep all right, and I believe the flowers are much more attractive on long stems than on the boards. I wish we could find some way of making carnations keep better, and not curl up. They did not keep well at all at the garden."

"How did your system of duplicating premiums work?"

"First rate. It gives the other fellow a chance. Plenty of people are ready to enter who could not come in at the start on account perhaps of backwardness of their stock."

"Did you have any trouble about the judging?"

"Yes, indeed, lots of it. Sometimes the fault of the judges, sometimes the fault of the exhibitors. Some exhibitors did not pay careful attention to the requirements of the schedule, and were disqualified on their own fault. I never saw so much kicking as there was at this show. If they didn't get first prize, they kicked. Mad? I should say so. Mad was no name for it. I believe it was a mistake to ask such people as Mr. McAllister to judge the tables. Such work should have been given to three or four disinterested florists who understand these things. They are the men who should be selected. But everybody does not care to act as a judge. Some of the awards were like judging between a race horse and a cart horse—give it to the cart horse because he is the biggest."

"Is there anything else you think of, Mr. Plumb?"

"One thing I certainly would suggest—At the close of the show no one should be allowed to touch his exhibits until the public have been cleared out of the hall. Then each exhibitor has a perfect right to do as he pleases with his goods. Otherwise a general onslaught is made on the stuff. When one begins the whole crowd follows and they go in and take anything they can lay their hands on. At least that has been our experience. The best dressed people were the worst, strange to say, and in their struggles they upset jardinières, broke vases and pulled things to pieces generally. Well good bye, for this time." "Good bye. Thanks."

Hydrangeas for Easter.

In many cities these plants form a very important part of the Easter stock, being second only to the lilies, and thus naturally call for much space and attention from the growers.

The plants for this purpose may be either one or two years old, according to the size that may be most desirable for the locality or market of the grower, the varieties most satisfactory and most in demand being H. Otaksa and H. Thos. Hogg, while H. paniculata grandiflora and H. stellata fimbriata can also be readily forced if required.

A common practice for the production of this stock is that of rooting cuttings in the early spring, the young plants being planted outdoors as soon as the weather is favorable, and if well supplied with moisture will make large enough plants to require 6 and 8-inch pots when lifted in the fall. Some pinching is needed during the early part of the season to induce a bushy growth, but this practice should not be too long persisted in or a loss of flower buds will be the result.

The lifting should be done before severe frost occurs and no pruning done at the time of this operation, for the buds are already formed for the following season's flowers. The plants can then be stored in cold frames until the time arrives to start them into growth again, this being usually about New Years or soon after, the time being regulated by the date of Easter, the forcing operation generally occupying about twelve weeks, though it may be more hurried if necessary.

A temperature of 60° to 65°, full ex-

posure to sunlight and abundant moisture are the necessary conditions for the satisfactory forcing of these handsome plants, and as they rapidly become pot-bound occasional applications of liquid manure will also prove highly beneficial tending to improve both foliage and flowers. By the time the plants are showing flower they will take up large quantities of water, and in bright weather may need to be watered two or three times a day, for the size and quality of the trusses may be injured by the plants becoming too dry.

It should also be remembered that it is much the wiser plan to start forcing early enough to give time to harden off the plants before they are used, for when taken out of a close, warm house and exposed to the outer air or placed in a draughty location they will surely "flag" and result in disappointment and probably growls from the customer, whereas they will stand much exposure if properly hardened before sending out.

Some neat stakes will also be required in order to keep the shoots from falling as the flower heads become heavy, and in this part of the operation the artistic eye should be cultivated, bearing in mind that the staking of plants should always be done in the most unobtrusive manner.

An abundance of space should be allowed to hydrangeas to prevent the growth from becoming drawn or weak, and also full light except in the case of plants in which the flowers have opened before they are needed, and when such is the case they may be kept in good condition for a considerable length of time if placed in a shaded and airy house.

Some variations in the color of hydrangeas are frequently noted, the differences probably being due to soil, though the original species from which both *H. Otaksa* and *Thos. Hogg* are derived, viz., *H. hortensis*, appears to be naturally variable.

It may be repeated, however, for the benefit of the few unacquainted with the fact that the mixing of some iron filings in the soil and an occasional watering with alum water will tend to encourage the blue shade in the flowers of *H. Otaksa*, though it is also quite possible that in some localities the soil may contain enough of such constituents to produce this color in the flowers without any special effort on the part of the grower.

W. H. TAPLIN.

Philadelphia.

Chrysanthemums are still very plenty but with all the quantity about there has been no real glut; all good flowers have sold at fair prices. *Gloriosum*, *Ivory*, *Advance*, *Mrs. Bullock*, *E. laine*, *M. Wana-maker*, and several other good early ones are done. *Widener*, *Lincoln*, *Snowstorm*, *Souree d'Or*, *Ada*, *Spaulding*, *Eldorado*, *L. C. Madeira*, *Kioto*, and *Canning*, form the bulk of the stock now in trade. Beside these every grower has a few varieties on trial which are brought in, and keep the store keepers guessing when applied to their customers for the names. Too much cannot be said of *Eldorado* as a good all round yellow. It is a beautiful incurved flower of perfect form and good size. Mr. Harris has had it very fine; it was the first yellow he cut and is as fine as anything that comes into the market yet. He says its only drawback is that it requires care in growing, as it is slow to start; his were all grown one flower to a plant.

Good flowers of all varieties bring \$1.50

per dozen, a few extra good ones \$2, and from that down to \$1 a hundred. Next week will cut a big swath into them and finish up a number of houses.

A rose grower was heard to say, "I wonder when the blamed things are going to let go! I wish they were all back where they came from!" It looks now as if they would last until the first week in December and sell well then.

Carnations are now first-class, but \$1 is the best that can be obtained for them. Roses are good, especially *Perles*, which have been very fine this season. *Cusins* and *Wattevilles* are getting into shape, but *Mermets* need a little more cold weather to put color into them; 3 to 4 is asked for good stock of *Mermets*, *Brides*, *La France*, etc. and 2 to 3 for *Perles*, *Hostes*, *Cusins* and *Contiers*. *Valley* brings 6, *Romans* and paper white 4 to 5.

Messrs. Lonsdale, Harris, Heron, Nisbet Westcott and Kift visited Baltimore in the capacity of judges for the chrysanthemum show of the Gardeners' Club of that city. On their return they reported having seen a fine collection of plants, cut flowers, and floral designs and spoke in the highest terms of the hospitality enjoyed at the hands of the Gardeners' Club. The annual dinner was a very enjoyable occasion, the eloquent Mr. Sands making a most competent toast master. Mr. Robert Halliday, Jr. received quite an ovation on his appearance at the board, his anxiety to see that all was going well at the show, having delayed his coming; he is one of the most popular young men in the business.

W. K. Harris has selected from among his seedlings several very fine varieties, two or three of which are likely to be prize winners next season. One large bronze incurved is clearly an advance over anything in its class, and a number of others will no doubt develop into something great with another season's trial.

A severe wind storm the past week tore the ventilators from one of his houses, the ventilating apparatus held fast but sash were carried off bodily, the screws giving way; the damage caused was trifling. Although several dwelling houses were unroofed we heard of no further damage to the trade.

The Delawares and the Schuylkills had another match last Thursday night which resulted in another victory for the Delawares. There is to be another go on Wednesday evening with teams of nine nine who will play two games instead of three. Brown put up a score of 243 last Saturday evening; this is the best of the year, and within three pins of the record.

Tuesday evening Nov. 15, the election of officers of the Pennsylvania Horticultural Society to serve for the ensuing year took place, the following gentlemen being elected: President, Geo. W. Childs; vice-Presidents, Robt. Craig; Dr. W. A. Reed, Chas. H. Miller and George C. Watson; Corresponding Secretary, Edwin Lonsdale; Recording Secretary, D. D. L. Parson; Treasurer, Thos. Cartledge; Professor of Botany, Chas. Schaffer, M. D.; Professor of Horticulture and Chemistry, Professor Persifer Frazer; Professor of Entomology, Rev. H. C. McCook, D. D.; Solicitor, W. T. Delaney; Librarian, D. D. L. Parson. Nine new members were elected.

Rev. Dr. McCook was to have lectured on "Ants and Aphides" but was unable to keep his engagement on account of illness.

The reports of the judges on awards of premiums at the recent show were approved. The surprise of the show was

the attendance on election day, which it was supposed would be only nominal, on the contrary however it proved to be one of the best days, K.

Washington.

Business during the past week is reported as being very quiet among the florists having stores, while those having stands in the market say they have no cause for complaint. It is a fact beyond denial that chrysanthemums have the day, subordinating all other flowers, and our markets are stocked with some very fine blooms as well as plants of this very popular flower; the demand is good and prices satisfactory. Roses are plentiful and of very fair quality. Carnations and violets are in abundance and are of most excellent quality, the demand is reasonably good, retailing for a good price.

Palms, dracenas, rubbers and other decorative plants are plentiful, looking remarkably fine and healthy, the demand for them is increasing and they are bringing good prices. The markets are somewhat overstocked with roses, owing to the chrysanthemum rage. No other flower in our markets has such a sale during its season. Messrs. J. H. Small & Sons had an exhibition of "mums" at their fine store. This was open to the public day and evening. They had an excellent show of the finest blooms that could be obtained from the northern growers. Besides the vases of chrysanthemums they had a number of fine pieces made of the flowers. The walls and ceiling were handsomely decorated with *Asparagus plumosus* and *Florida smilax*. In their front window was arranged a miniature garden, the lawn composed of *adiantum* and mosses, with gravel walks. In each front corner was a mound of *cypripediums*, and through the lawn were beds of different chrysanthemums finely arranged, all producing a striking effect. I noticed one or two of the new styles of silver baskets finely arranged with *Dendrobium fornosum giganteum* and *lilacs* of the valley.

Mr. C. F. Hale, whose store is just a half block further up 14th street, also had a display of chrysanthemums during the same week, exhibiting only plants and blooms of his own growing. Among them are some of the finest flowers I have ever seen. I am told by some of those who visited the show at Madison Square Garden that the blooms of *Minnie Wana-maker* exhibited there were quite inferior compared with those grown by Mr. Hale, and that several varieties that he has are just as fine, if not superior to any at that great show. Mr. Hale has every reason to congratulate himself upon his fine display. Both of the above well known firms have had crowds of admiring visitors, notwithstanding the disagreeable weather.

Mr. Geo. H. Brown, the able public gardener, has had a fine display at the Propagating Gardens, Monument Grounds; his plants are finely grown and have produced some excellent flowers, several of the blooms of E. D. Adams measuring 13 inches in diameter each. Mr. Brown has all the latest varieties introduced last year and has grown them to perfection. Those planted by him in the parks and reservations are doing remarkably well and if the weather continues favorable for a week or ten days longer they will be very attractive.

The death of Mrs. Harrison has had its effect upon society, and consequently is against the florists. Quite a number of invitations for dinners have been can-

celled and the orders for the decorations have been revoked. This will be quite a loss to our florists, the entertainments usually given by the cabinets and the leaders of society will be very materially reduced from now until the 4th of March, which period heretofore has been the harvest season for all Washington florists. With the incoming administration it is hoped business among them will increase. C. LESLIE REYNOLDS.

SOME OF THE most entertaining plant literature of the year is contained in the Chrysanthemum Souvenir sent out by the Pennsylvania Horticultural Society, which was distributed free at their great show in Philadelphia. It is charmingly arranged, amply illustrated, and contains several chrysanthemum articles and some crisp and entertaining matter on roses, carnations, palms, ferns and orchids, all written by well known specialists.

MALDEN, MASS.—Benj. Grey is about to add a flower store to his establishment.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first-class rose grower; 8 American styles; 15 years experience. Address ROSE GROWER, American Florist, Chicago.

SITUATION WANTED—By respectable young man, experienced in constructing iron and wood greenhouses. Address E. F. care Am. Florist, Chicago.

SITUATION WANTED—As foreman, propagator, grower of general stock and orchids, in commercial office place. Good references for ability. Single. Address R. T. Tom's River, New Jersey.

SITUATION WANTED—Seedsmen. Advertiser, age 30, 15 years' experience in the best English and American houses, is open for engagement. Address with particulars, SEEDS, care Am. Florist.

SITUATION WANTED—As endorser in private Englishman; married, two children. Eastern references. Address J. W. STOLBART, 321 W. Matherly St., Bloomington, Ill.

SITUATION WANTED—By a young German florist, 30 age 25, married; 10 years' experience in growing cut flowers and market plants. Private or commercial place near New York or Philadelphia preferred. Best of references. Address N. C. care Am. Florist.

SITUATION WANTED—Or partnership, either in store or greenhouse; by a thoroughly practical business man with large acquaintance and trade. Vicinity of Chicago preferred. Address WILLIAMS, care Chicago Floral Co., 38 Grand Boulevard, Chicago.

SITUATION WANTED—As foreman on private S place, by practical grower, experienced in all branches of landscape work, vegetables, greenhouse plants, etc.; best references. Vicinity of Detroit or Eastern States preferred. Correspondence invited. Address GARDENER, care Chicago Floral Co., 38 Grand Boulevard, Chicago.

WANTED—A well experienced lady as manager for a retail store. Address A. B. care Am. Florist, Chicago.

WANTED—Hot water boiler that will heat about 40 to 50 feet of 1-inch pipe. Must be in good condition. Address A. ROSBACK, Pemberton, N. J.

WANTED—Cut flowers: bids for semi-weekly shipments, 100 finest roses, State kind and price. Address Mrs. D. J. KNIX, Butte, Montana.

WANTED—AGENTS in the principal towns of the U. S. by an important European seed firm. Write full particulars to W 429, "Express," care Rud. Mosse, Berlin, (S. W.) Germany.

WANTED—At once, a single florist, strictly sober and honest; a grower of plants and cut flowers, good designer and decorator in floral work. No other need apply. Good references. State age, experience and wages. Address C. C. FLEMING, Salt Lake City, Utah.

FOR SALE—OR RENT—An bargain, an old established florist business near N. Pa. Must be disposed of through serious illness. Address FLOREST, care American Florist, Chicago.

FOR SALE—Whole or part interest in wholesale and retail Seed Business, situated in good prosperous town. Possession given June 1, 1895. Address R. care J. C. Vaughan, Box 65, Chicago, Ill.

FOR SALE—Three-fourths (¾) acres ground, well stocked with small fruit; also of three green houses; rebuilt last year; well stocked with roses, carnations, and general green house stock. House 7 rooms; barn and other outbuildings. For particulars address Lock Box 862, Washington, Ia.

ROOTED CUTTINGS.

CARNATIONS.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY.

Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. PENNOCK,
The Pines. Kennett Square, Chester Co., Pa.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready
January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

FOR SALE.

A N OLD ESTABLISHED FLORIST BUSINESS at Dorchester, Mass., comprising 20,000 feet of land centrally located, on which are:

1 House 70x18 filled with Carnations.

1 House 70x16 filled with Roses.

1 House 70x11 filled with Violets.

1 House 70x10 filled with Violets.

1 Sash Pit 70x7 filled with Violets.

1 Dwelling House, seven rooms

Plants in good condition and houses in good repair. Price, \$6,000.

Address

N. F. MCCARTHY & CO.,

1 Music Hall Place,

BOSTON, MASS.

Nursery Manager WANTED.

We offer a Nursery Foreman or Manager a permanent position at a liberal salary; provided he possess executive ability, a thorough knowledge of the business, is steady and temperate. State experience, salary required and date can take position. Address

BOX 37, Little Silver, N. J.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

GERANIUMS.

Transplanted cuttings of a very choice assortment, every variety a good one. Price per 100 with labels, \$2.50, without, \$2.00.

MISCELLANEOUS STOCK

will be advertised as ready. Watch this space.

CALL AND SEE ME OR SEND FOR A LIST.

A Great Pair.

EDNA GRAIG

GRACE BATTLES

\$12 per 100.

\$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of Aurora at \$15.00 per 100, and Golden Gate at \$3.00.

Some Specialties for 1893 will be

Aurora
Thos. Cartledge
Pearl
Golden Triumph
Grace Darling
Puritan
Emily Pierson
Orange Blossom
Angelus

New Jersey
Nancy Banks
Dorsey
Mrs. Pitt
Ben Hur
Daybreak
White Wings
Edwin Lonsdale
American Flag

EDW. SWAYNE, Carnationist,

KENNETT SQUARE, PA.

CARNATIONS

Strong, healthy, field grown plants.

PURITAN—The best white. Early, productive and healthy. Let size, \$15 per 100; \$25 per 1000. 2nd size, \$10.00 per 100; \$40.00 per 1000.

Hybrid Perpetual Roses.

Strong, field grown plants, \$10.00 per 100.

WOOD BROTHERS,

Fishkill, N. Y.

ROOTED CUTTINGS OF CARNATIONS

Here we are again; but in a better shape than ever before. In addition to our extensive range of greenhouses, we have added two new houses, each 90 feet long, devoted to the propagation of carnations only, and hope to be able to fill all orders of any size, from December to June. We have the best of the new varieties recently introduced; also the best standard sorts not superseded by the choicest of the recent acquisitions. Our stock is in perfect health, and more flourishing than ever. Trade price lists will be mailed to all applicants after December 1st. Correspondence solicited. Watch our ad.

JOSEPH RENARD, Unionville, Chester Co., Pa.

OUR NEW TRADE

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

FOR 1892

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

New York.

The shipping trade has been rushing with such of the wholesale dealers as make an effort to push this department. Coming at a time when there has been such an overstock of flowers all around it has been a most welcome out let. Some very fine stock has been shipped, and at not a few chrysanthemum shows throughout the country. New York grown flowers have carried the day. As an instance of what can be done in long distance shipping, it is interesting to note that Young Bros., are sending lily of the valley regularly to a firm in San Francisco.

When will the limit in the line of florists delivery wagons be reached? A brisk rivalry has been going on for a year or two between the leading retail florist establishments, each new wagon as it came out going ahead of its predecessor in glory, until now there is no vehicle on Broadway so magnificent and attractive as the florists turn out. And the end is not yet.

Mrs. Russell, grand aunt of John Weir and Fred Weir, Jr. died at the residence of the latter at Bay Ridge on Nov. 14, at the phenomenal age of 106 years.

Julius Roehrs anticipates a great future for a seedling chrysanthemum which he has produced. It is pink in color, exceedingly double and very large.

Mr. I. Forsterman strongly advocated, at the Florist Club meeting, the plan of inviting the ladies to participate in the annual club dinner. Mr. Manda was especially solicitous as to the privileges to be accorded to the unmarried members in case Mr. Forsterman's recommendation was adopted. Several deep sighs of relief were heard from various parts of the hall when it was finally defeated.

Boston.

Chrysanthemums show but little sign of diminution as yet, and flowers of all kinds are over-abundant, violets always excepted. After 6 p. m. the fakers have free access to all the streets and then the enormous over-production of roses and carnations becomes apparent. All along the curb-stone in the most frequented thoroughfares they are piled up in great heaps, their owners competing for possession of coveted spots with the banana cart, the "Bowery" song and the "Man in the Moon."

The quarters secured by the growers who sell their own flowers, at 63 Bromfield street, prove to be entirely too small for their needs. It is quite a lively place from 7 to 9 a. m. every day. All the wholesale dealers report the supply trade as being better this year than at any previous time.

The new store recently opened by L. J. & W. J. Doogue on Boylston street, is one of the handsomest in the country. A. P. Calder's store has been thoroughly overhauled and enlarged, and has a very attractive window.

There was another good time on the evening of November 17, when Mr. Ed. Hatch had invited a few of his friends to see him pay an election bet at the Thorndyke Hotel, or as his invitation expressed it, "to cat crow." The party numbered twelve and by the time they had got through not a remnant of either crow or fixin's was left. Several more occasions of a similar nature are said to be pending.

Mr. O. J. Horn, representing the Stott Garden Implement Co., has been canvassing Boston the past week with splendid results. Evidently the "insect foes" are going to have a hard struggle for existence this winter.

Asparagus Plumosus Nanus.

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

NILES CENTER FLORAL CO.,

Wholesale Dealers in

Cut Flowers

AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,

In Chicago Cut Flower Exchange,

45 Lake St., CHICAGO.

We are now located at our new quarters in Chicago Cut Flower Exchange, and are prepared to fill orders in very best manner. Give us a trial order and see how we please you.

Pines, * Wild Smilax AND Palmettos

For XMAS. Order early to insure careful selection and prompt delivery, by

A. E. OELSCHIG,

SAVANNAH, GA.

Cut Flowers. ROSES, CARNATIONS AND CHRYSANTHEMUMS.

We can fill orders for above on short notice: Adams, American, United States and Wells Fargo Express Co.'s. Give us a trial order.

GEO. A. KUHLE, Pekin, Ill.

HARDY CUT FERNS

MOSS (SPHAGNUM AND
GREEN SHEET).

A 1 IVY LEAVES.
BOUQUET GREEN AND FESTOONING of
all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Pl'ce, BOSTON, MASS.

Palm Leaves & Plants for Decorating

Green Spanish Moss, \$2 per ton. Saw Palmetto leaves \$5 per 1000; \$3 per 1000. Saw Palmetto crowns or tops (1 to 4 ft.), and Young Yellow Pine tops, (leaves 10 to 12 inches), 3 ft. \$2 per 1000; 5 ft. \$3 per 1000. Tillandsia utriculata (5 to 12 inches), \$2 to \$3 per 1000; \$3 to \$10 per 1000. Sabal Palmetto leaves, crowns, plants and young leaves for Palm Sunday. Write for prices on other decorative goods to

VICTOR CHEMLZ, Sylvan Lake, Orange Co., Fla.
Everything well packed and delivered on cars with out extra charge.

CUT FLOWERS OF CARNATIONS

We are now ready to receive standing orders for the winter.

CHAS. T. STARR, Avondale, Chester Co., Pa.

FLORIST with OLD ESTABLISHED stand in principal market in Philadelphia, desires correspondence with regard to consignments of Holly, etc., etc., for Holidays sale. **W. G. KIRKLAND & BRO., Terminal Market, Philadelphia, Pa.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE Chicago Cut Flower EXCHANGE.

Incorporated. Capital Stock, \$10,000.

No. 45 LAKE STREET,

is now open for business. A number of prominent growers have secured space in the Exchange, and a choice and varied stock can be found there at all times to select from.

There are also Commission men in the Exchange who will receive consignments and fill orders promptly.

The Exchange has a limited amount of Table space to rent. Also choice advertising spaces on the walls at a reasonable rate per year. This is an excellent method of advertising; reaching the buyers of Chicago and vicinity, as well as visitors from a distance. For terms, etc., address

THE MANAGER OF
THE CHICAGO CUT FLOWER EXCHANGE,
No. 45 Lake Street, Chicago.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 FINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

Mention American Florist.

WM. ELLISON, (Late of ELLISON & KUEHN), WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

204 PINE ST. ST. LOUIS, MO.

Mention American Florist.

Wisconsin Flower Exchange, WHOLESALE Cut Flowers & Florists' Supplies

131 Mason St., MILWAUKEE, WIS.

CHOICE STOCK, CAREFULLY PACKED,
AND ON TIME. Send for Price List.

SMITH, The Florist, GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

J. L. DILLON, Wholesale Florist

BLOOMSBURG, PA.

WRITE FOR CIRCULARS.

Mention American Florist.

CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

M. OLSON, *
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

WHOLESALE
FLORISTS
*
Lo Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.
Cut Flowers.

NEW YORK, Nov. 22.	
Roses, Perles, Gontiers, Niphotos.....	1.00c 2.00
" " Mermet, Bride, Hote.....	1.00c 3.00
" " Watteville, Cusin.....	1.00c 3.00
" " La France, Albany.....	1.00c 4.00
" " Beauty.....	5.00c 25.00
Carnations.....	75c 1.00
Valley.....	4.00c 5.00
Romans.....	4.00c 4.00
Narcissus.....	4.00c
Violets.....	1.00c 1.50
Chrysanthemums.....	5.00c 25.00
Mignonette.....	2.00c 6.00
Adiantum.....	1.00c
Smilax.....	12.00c 15.00
Asparagus.....	50.00
BOSTON, Nov. 22.	
Roses, Niphotos, Gontier.....	2.00c 3.00
" " Bride, Mermet, Woolton.....	3.00c 4.00
" " La France, Meteor.....	4.00c 6.00
" " Perle, sunset.....	3.00c 4.00
" " Beauty.....	5.00c 25.00
Carnations.....	1.00c 1.50
Valley.....	5.00c
Romans.....	4.00c
Narcissus.....	4.00c
Violets.....	75c 1.00
Chrysanthemums.....	4.00c 25.00
Callas.....	12.00c
Asparagus.....	20.00c
Smilax.....	12.50c
Adiantum.....	1.00c
PHILADELPHIA, Nov. 22.	
Roses, Beauties.....	30.00c 25.00
" " La France, Albany, Mermet, Bride.....	4.00c
" " Cusin, Watteville.....	3.00c
" " Meteor.....	3.00c
" " Perle, Niphotos, Gontier.....	3.00c
Valley.....	6.00c
Carnations.....	1.00c 1.25
Violets.....	40c 75c
Chrysanthemums.....	4.00c 15.00
Romans.....	4.00c 5.00
Narcissus.....	4.00c 5.00
Adiantum.....	1.00c
Smilax.....	15.00c 20.00
CHICAGO, Nov. 22.	
Roses, Gontier.....	3.00c 4.00
" " Perle, Niphotos.....	3.00c 6.00
" " Mermet, La France, Bride.....	4.00c 7.00
" " Woolton, Bennett, Meteor.....	4.00c 7.00
" " Beauty.....	15.00c 25.00
Carnations, stiff.....	1.00c 1.25
" " long.....	1.50c 2.50
" " fancy.....	2.00c 3.00
Chrysanthemums, common.....	1.00c
" " fancy.....	5.00c 25.00
Romans.....	4.00c 5.00
Violets.....	1.00c 1.50
Adiantum.....	1.00c 1.25
Smilax.....	15.00c 22.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
— WHOLESALE. —
67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES.
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House).
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
— WHOLESALE —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.
Mention American Florist.

THEO. ROEHRs,
— WHOLESALE —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A HART,
Wholesale & Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
Branch, at Cut Flower Exchange, 408 E. 34th St.

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Weathersfield, Conn.

A Seedsman's Prayer Answered.

It recently happened that two seedsman, one from—let us say, the Orient, and the other from the Occident—met in California; after exchanging opinions on trade generally they agreed that the outlook was a short crop of onion seed, and consequently high prices, so it was suggested by the latter to call on a certain seed grower who was supposed to carry a very large stock of onion seed, and to use his phrase, "clean him out at a low figure," and they set about perfecting this plan, which they had no difficulty in doing, and the preliminary part of the deal was consummated and a memorandum of the stock taken, but while in the midst of discussing the final price the Californian excused himself and went up stairs and in about 15 minutes he returned, when the amount offered him was accepted and the purchase agreed upon to the satisfaction of all.

But a change that night came over the party from the west, he weakened on the bargain and backed entirely out, probably the raising of his share of the cash, some nine or ten thousand dollars, haunted him during the night; however, the Californian released them from the purchase and called the deal off. He then asked them if they knew why he went up stairs during the discussion and just before accepting their offer; they replied no; he then told them it was to pray that the Lord would protect and guide him in carrying out a profitable contract with those two seed sharpeners. The prayer was answered, as the crops were subsequently sold at an advance of \$10,000 over the amount offered by the two afore-said gentlemen. B.

Onion Seed.

The wholesale price on onion seed at present (November 19) seems to be about as follows for round lots: Red Wethersfield 1 40 to \$1.50, Yellow Globe Danver's 1 40 to 1 75, Flat Danver's 1 40 to 1 50, Yellow Dutch 1 40 to 1 50, White Globe 2 50 to 3 00, White Portugal 2 50 to 3 00, White Globe and Portugal, imported seed, 2 25, Southport Red Globe, Western California grown, 1 35 to 1 50.

Probable retail prices. The following figures are probably a close prediction as to what might prevail as retail mail prices on onion seed the coming season, although it is conceded that a number of catalogue seedsman have nearly their full usual supply which they own of course at close rates and if they see fit may decide to make considerably lower prices than these. Conservative men are inclined to believe that if the seedsman will act in harmony there will be no trouble to dispose of all onion seed in the country at these prices: Red Wethersfield \$2 10 to \$2 25, Flat Danver's 2 40, Globe Danver's 2 50, Globe Danver's, fancy, 3 50 to 5 00, Yellow Dutch 2 30 to 2 40, White Portugal 3 25 to 3 40, White Globe 3 50 to 4 00, Early Flat Red 2 25, Southport Red and Yellow Globe 2 25.

IT IS STATED that the New England crop of yellow and red onion seed is about

FLORISTS' STOCK IN SEASON

	Per 100	Per 1000
Hyacinths—Named.....	\$1.00	\$
" Mixed, single, separate colors.....	22.50	
" Roman, yellow.....	25.00	
" Roman, white, 12 1/2 inches.....	25.00	
Narcissus—Vogel's.....	15.00	
" Double Roman.....	21.00	
" Chinese.....	6.50	
Lilium Auratum, 7 to 9 inch.....	7.50	
" (Auratum 50c more per 100 in N. Y.)		
" Rubrum, 6 to 8 inch.....	7.50	
" Rubrum, 8 to 9 inch.....	10.00	
" Album.....	22.00	
Tulips, single, as follows: Cottage Maid, Chrysolora, Canary Bird, Golden Kroom, Potentilla, white and scarlet, Rosa Mond, Yellow Prince.		
Tulips, double, as follows: Gloria Solis, La Cadreur, La Cladielle, Peony Gold, Rex Rubrum, Duke of York. All at bottom prices.		
BOUQUET GREEN—Per 100 in Chicago, \$3.00; in New York, \$6. Write for prices on larger lots.		

A FINE LOT OF KENTIAN, ARETAN, ETC.

NEW YORK. J. C. VAUGHAN, CHICAGO.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

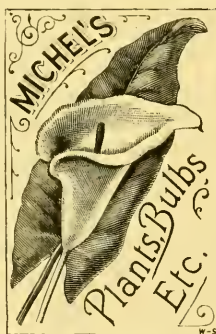
We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.
Mention American Florist.



Mention American Florist.

SEEDS! PLANTS! BULBS!

Everything pertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

the usual one, though whites are very scarce; the anticipated shortage must therefore be mainly in the California stocks unless eastern acreage was smaller than usual.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

HOLLY—Vaughan's "Get There" Holly, full cases. All stock, known to be the best and most reliable, per case, \$8.00; 3 cases \$19.00; 5 cases, \$25.00. There is big money in this stock. Order of Vaughan and be sure of it.

Spirea Japonica, strong clumps..... 1.00 5.00
Compacts multiflora..... 1.50 9.00
Aurea reticulata..... 1.50 9.00

For description see our "Book for Florists."

LILY OF THE VALLEY, Hamburg Pips, in Chicago, best 3 year old, per 100, \$1.25; 1000, \$8.50; per 1000 in 400 lots, \$7.50; to 10,000 lots, \$7.40.

ARAUCARIA EXCELSA, fine plants, \$2.00 and upwards.

STANDARDS, heads 18 inches in diameter..... \$18.00
" 28 inches in "..... 25.00
" 36 inches in "..... 35.00
Pyramidalis, 5 ft. high, 24 inches in diameter, 17.00
" 7 ft. high, 32 inches in "..... 20.00

Standards, 7 ft. in diameter, price on application.

A FINE LOT OF KENTIAN, ARETAN, ETC.

Special Offer.

ROMAN HYACINTHS Per 100

White..... \$1.40

Blue..... 1.50

Pink..... 1.99

DUTCH HYACINTHS

Single mixed, extra fine..... 2.40

Double..... 2.50

TULIPS

Single mixed, finest quality..... .90

Double..... .90

CROCUS Per 1,000

All colors, mixed, extra fine..... 1.85

FRESH MUSHROOM SPAWN

Per 100 lbs. \$7.50.

Have you had our "Bulb List?"

H. C. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.

STOCK THAT SELLS WELL! LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS.

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878 SAN FRANCISCO, CAL.

THE DREER'S GARDEN SEEDS

Plants, Bulbs, and Equisetales. They are the best at the lowest prices. PUBLIC LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

LILUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY.

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

A Record Worth Having.



The Whitney Cup, for best new Rose of American origin

The Lanier Cup, for best new Rose of European origin.

The Pierson Cup, for most promising new Forcing Rose

IN FACT NEARLY ALL OF THE 

BEST ROSE PREMIUMS

**Including First and Second on American Beauty,
First and Second on La France, Cusin,
Watteville, Etc., Etc.**

ALL THE PRIZES FOR DOUBLE VIOLETS.

ABOUT ONE-HALF OF ALL THE FIRST PREMIUMS AWARDED,
Chrysanthemum Plants and Cut Blooms included.

ABOUT TWO-THIRDS OF ALL THE SECOND PREMIUMS AWARDED

~ ~ ~ AT THE ~ ~ ~

Madison Square Garden Exhibition of 1892

To growers who are our regular consignors, and whose goods we handle exclusively. This is the quality of Stock we are shipping and which has been taking big premiums in many of the western shows.

YOUNG BROS.,

WHOLESALE FLORISTS,

20 West 24th Street.

NEW YORK.

Chicago.

There is a decided stiffening in the flower market this week; prices have advanced and the demand is good. The season is now fairly opened and prospects for the winter are excellent. Roses are improved in quality, though there is some tendency to mildew still, owing to unfavorable weather. The quantity is rather short, being only enough for the home market. Carnations continue to improve, but are not plentiful, nor are they likely to be. Chrysanthemums are growing shorter in quantity; the supply of good flowers has not been excessive at any time during the season, but they have sold to better advantage and been in greater demand than last year. Some good Lincoln are still coming in.

The scarcest crop at present is violets. The local crop is extremely short, while the demand is very large; in fact, there is a greater demand for them than for any other flower in the market. Roman hyacinths are comparatively plentiful, not always first class in quantity. Paper white narcissus is still scarce; a good deal of inferior quality is seen. Some narcissus is received from Mississippi, but is not likely to make any impression, southern-grown flowers rarely coming up to the standard of our markets.

The Cut Flower Exchange has recently received a new accession to the ranks of the commission men, Mr. T. J. Corbrey. Mr. Corbrey continues his retail store on West Madison street. The commission business is a practical expression of his faith in the Exchange as a business enterprise, and as he has taken a lease for some time it is fair to infer that he means to stay. The co-operation of the retailers will give additional stability to the Exchange.

Portland, Me.

On Friday, Nov. 4, Thomas Kane, a well known florist, rear of 697 Congress Street passed away after a long illness. He was 73 years of age and leaves a wife, three daughters and two sons. He was a native of Ireland and came to Portland when a young man. He was in charge of several private places when about twenty-five years ago he took to jobbing and had a small place of business with green houses of his own on Congress street. He was a hard working, honest man, had good habits and very moderate in his way and manners. Jos. A. Durwanger.

DENVER, COL.—The Florists' Bowling Club was organized here November 11. The following officers were elected: President, H. Schneider; secretary, W. H. Cochran; treasurer, Emil Glauber; committee on by-laws, Messrs. Cochran, Miller, Schneider and Bosk. The membership is limited to 20. The new club expects to compete in the tournament at St. Louis next year.

KANSAS CITY, Mo.—The Humfeld Floral Co. have in their new plant, corner 9th and Highland avenue, four houses of roses, two of carnations and violets and one of decorating plants.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France. A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada. C. C. ABEL & CO., P. O. Box 920, New York. Mention American Florist.

UNITED STATES NURSERIES.

DECORATIVE PLANTS.

Do you intend laying in a stock of Decorative Plants? If so, do not fail to write for our prices or come and see our immense stock of

LATANIA BORBONICA,

KENTIA BELMOREANA,

RHAPIS FLABELLIFORMIS,

ADIANTUM FARLEYENSE,

PANDANUS VEITCHII,

ARECAS IN VARIETY,

KENTIA FORSTERIANA,

RHAPIS HUMILIS,

ARAUCARIAS,

MARANTAS,

And hundreds of other valuable plants in the best possible condition only.

PITCHER & MANDA,

SHORT HILLS, N. J.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stone and Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts. LILIUM HARRISII and BULBS for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y. Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London. Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 26 Greenwich Street, New York City.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO., Established 1854. Govanstown, Md.

PRICE LIST FREE. 1,000,000 CANE STAKES. Mention American Florist.

SURPLUS ORCHIDS FOR SALE

SPECIMEN DENDROBES of several kinds, in perfect health, with 40 to 80 bulbs each, with many new fine ones for flowering. Also many other kinds for sale to make room, or exchange for cool house Orchids.

DR. GEO. W. LITTLE, GLENS FALLS, N. Y.

SURPLUS PLANTS CHEAP.

Large Palms and other Foliage Plants very cheap. Rooted Cuttings of Cape Jasmine, \$1.00 per 100; \$3.00 per 1000. Ficus, 3 colors, 12½-inch pots, \$3.50 per 100; Cape Jasmine, \$3.00 per 1000. Fancy-leaved Caladium bulbs, lots of colors, from 1½ oz. to 12 oz. each, from \$4.00 to \$15 per 100. I will sell for cash or exchange for a pumping outfit. Address F. J. ULBRICHT, Florist, Amistown, Ala. P. O. Box 655.

75,000 IPOMOEA PANDURATA

(Day-Blooming Moonflower.) ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 100 rate. Per 1000 \$20; 500 at 100 rate.

Orders booked and shipped when desired. Orders booked for ACHILLEA "The Pearl", at \$25.00 per 1000.

JAMES FROST, Greenville, Darke Co., O.

Cyclamen Persicum Giganteum

5-inch pots \$12.00 per 100 CHRYSAANTHEMUMS, Stock Plants. Standard market sorts \$ 5.00 per 100 Sweet sorts 10.00 per 100

Send for list of wants and let me make you prices. Address J. G. BURROW, FISHKILL, N. Y.

300,000 PANSIES—EXTRA.

THE JENNINGS STRAIN of Large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are fine Winter bloomers and for Spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 60 cents per 100. Any size to flowering plants, \$5.00 per 1000; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't write and ask if I can fill an order as it is only a waste of time. Seed of this strain \$1.00 per trade packet of 2,000 seeds; \$6.00 per ounce.

E. B. JENNINGS, CARNATION, VIOLET AND TANSY GROWER, Lock Box 254, SOUTHPORT, CONN.

25,000 Pansy Plants

The finest strain in the country. It can't be beaten. \$5.00 per 1,000; 75c per 100. Now is your time to order. Address,

GEO. B. WHITEHEAD, Lock Box 116, GREEN'S FARMS, CONN.

TO THE TRADE.

My Rooted Cutting Stock for the coming season includes over 300 VARIETIES CARNATIONS and 25 VARIETIES COLEUS, a select list, novelties and standard sorts, all in first rate shape. Can supply Coleus any time, and will be glad to book orders for Carnations.

ALEX. McBRIDE, Alplaus, N. Y.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs, ARAUCARIAS, CYCAS, ETC. Send for Catalogue.

FELIX GONZALEZ & CO., Nursery & Greenhouses: 303 to 312 Wayne St., SAN FRANCISCO, CALIF.

HARDY PLANTS.

We have them. Write us about it. Azalea nudiflora, Magnolia glauca, Kalmia latifolia, Xerophyllum, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs. Wholesale Trade List FREE. Send samples of what you want.

ROGERS NURSERIES, Moorestown, N. J.

BLACK CALLA



Until DECEMBER 15 we will dispose of a fine lot of **BLACK CALLAS**, home grown stock, ready to grow now, at **\$18 00 P-R 100** or **\$3 00 PER 12**. After that date we put them and charge a higher price.

GADIODUS NANCEIANUS. The largest flowers known, 10 named varieties, 50c. each. Price elsewhere is \$1.00. Send for list of Novelties in bulbs.
A. BLANC & CO., Philadelphia.

Mention American Florist.

"CHRYSLER-COLA"

Rooted Geraniums.

BRUANT,

LA FAVORITE,

S. A. NUTT,

HETERANTHE.

Large stock of these varieties ready to ship; \$1.50 per 100; \$12.50 per 1000. Cash with order. For other varieties send for Chrysler-Cola price list.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100, \$6.00, sent by mail.

BRAUER & RICHTER,

MCCONNELLSVILLE, O.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society on Sept. 16-19, we took with our Begonias **Fourteen First Prizes**, including the Gold Medal and also the Affourth Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

Mention American Florist.

Genista Racemosa.

Fine, bushy plants in 8-inch pots, for sale cheap for want of room. These plants will make splendid Easter plants.

LEMUEL BALL,

WISSINOMING, PHILADELPHIA.

MOLLY. First-class stock, well berried, per case of 16 cubic feet each, well packed, \$4.00 per case; 5 cases \$18.00.

MISLETOE—Well berried, \$3.00 per barrel.

Address

A. HALLETT,
Center St., Chattanooga, Tenn.

Sherwood Hall Nursery Co. TIMOTHY HOPKINS.

Offices and Salesrooms:

427-429 Sansome St

501-503 Clay St.

SAN FRANCISCO, CAL.

Exporters, Importers and Growers of

Trees, Plants, Seeds, Bulbs.

WHOLESALE FLORISTS.

GREENHOUSES, NURSERIES.

SEED FARMS and TRIAL GROUNDS
Menlo Park, Cal.

DWARF CALLA LILY "The Gem". A novelty of more than ordinary merit, seldom exceeding a height of 10 inches, and producing from a bulb no larger than an ordinary crocus, three or four perfect bulbs. The great advantage in saving space must suggest to the intelligent florist that "THE GEM" is one of the things he cannot afford to be without. **STOCK LIMITED.** Prices, free by mail or express, per dozen, \$2.50; per 100, \$18.00.

Cosmos grandiflora, pure white, per ounce, 60 cents; per pound, \$6.00.

Cosmos grandiflora, mixed, per ounce, 50 cents; per pound, \$5.00.

Hollyhock, in separate colors, canary, cream purple, red, rose and white, each per oz. 50c.; per lb. \$7.50.

choice mixed, per ounce, 60 cents; per pound, \$6.00.

Smilax, per ounce, 30 cents; per pound, \$3.00.

PALM SEEDS. Of these we can supply every desirable variety. Consignments constantly arriving. If interested, send for special list.

We are the People!

Who? KOFFMAN,

Where? WALDEN,
Orange Co., N. Y.

What? SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds

At \$1.25 per 100.

And he pays the Express.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

Association "Flora"

BOSKOP, HOLLAND.

Now on hand in New York:

CLEMATIS, 5 Years, per 100, \$20.00

H. P. ROSES, for forcing, 9.00

In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La Fance, Mme. G. Luizet, Mme. Planter, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blanchés, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiræas, etc. We also have Palms, Dracæas, Arecanias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,

JERSEY CITY, N. J.

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French hardy hybrid Nymphaeas. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

IF YOU WISH TO GIVE YOUR BUSINESS A BOOM!

PUT IN THE

SNOW GREST DAISY

T'will help to cheer the winter's gloom,
And make the times go aisy.

Stock practically unlimited. All this **DAISY** needs is to be seen so to be appreciated. It can **BLOW ITS OWN ROSE** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar; 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gilson's beautiful, scented hybrid Pansy seed—a few ounces left. 500 seed 30c.; 1000, 50c.; 1/4 oz. \$1.50; 1/2 oz. \$2.50; oz. \$4.00. Plants of same 60c. per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strain, in fine mixture, plenty of whites, intense pinks and purples, with all the intermediate colors and tints. In packets of 1000 seeds, 30c.; 1/4 oz. \$1.10; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose: you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds, 25c.

Double fringed Dianthus, the strain, all colors mixed, trade packet, 20c. Rooted Cuttings and small plants of our leading specialties later. Address, cash with order, please, **J. C. GIBSON, Woodbury, N. J.**

Mention American Florist.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

GERMAN FARMERS, GERMAN GARDENERS, AND AMATEURS

Are considered very desirable customers by all Seedsmen, Florists and Nurserymen. You can reach almost Thirty Thousand of them in all parts of the United States by advertising in

HEROLD DES CLAUBENS

Catholic German Weekly Journal,

Published at 309 Convent St., St. Louis, Mo., since 1850. Do not allow your advertising agent to substitute another paper as being "just as good," etc., but insist on going in the

HEROLD DES CLAUBENS

LORD & THOMAS, 45 Randolph Street, CHICAGO.
C. MEYER & CO., 151 Nassau Street, NEW YORK.
Sole agents for foreign advertising.

Watering Young Roses.

I would like to know from some of our largest growers of Bride and Mermet the method they as a rule adopt in watering for the first three months after planting in the benches. The system I understand to be in vogue around me, and what I have seen in use, is to my mind extremely ridiculous and must retard the young plants in their effort to make vigorous growth. I have seen rose benches filled with good stiff loam with an admixture of raw cow manure and a plentiful sprinkling of bone meal. The soil is allowed to lay for a week or more until every drop of moisture is dried out, and in this baked hot dust are set the young bushes. The grower will take his hose and squirt around the base of each plant a very little water and go through the same performance every morning if the sun is likely to shine very hot, and not at all if obscured (though a liberal spraying is given daily). Now, in such a house, 100 feet long and 18 wide, with ventilators in every other sash only, the temperature daily for 12 hours must range from 85° to 120° through the months of June, July and August, with ventilators and doors open. How long can a young plant be expected to live with the dry soil under it rapidly absorbing the moisture underneath, while the hot sun overhead is drawing it from the surface. I am told if a plentiful supply of water were given to moisten the benches thoroughly through it would sour the whole beds and cause every imaginable disease to attack the precious plants, and in giving such small doses of water was an inducement for them to make root rather than top. I am told by these same growers that unless the plants have plenty of leaves they can not make root. My observation leads me to believe that treatment of this kind is as injurious as the treatment of disbudbing, because it not only stunts the roses but where this moisture is will be gathered together every species of worm and vermin that may be in the soil, working if not eating the roots underneath and disturbing what few fibres may be able to strike out from the ball as coming from the pot. If I were growing roses now I would dig my sod in August or September and use fully one third good rotten barn yard manure, and not be afraid if it were all from the horse stables, providing it was thoroughly rotten. Cow manure would do if the other were unattainable, but it too would have to undergo considerable working before I would allow the nasty fetid damp raw matter to go with the sod. In stacking there would be a layer of each alternately and when using it every particle would have to be turned and mixed before going inside. If my plants at any time after making a fair start showed signs of giving out I would use some clean fertilizer in a very moderate degree, rather than by straining cow manure through a coarse sieve into a barrel, then carrying it by small cans and pouring over the surface of the beds as is done here. Now, sirs, in and through this Hudson and Mohawk valley there are being produced some very fine roses, I would call them the ne plus ultras, but at the same time there are some growing miserable puny sickly things unfit for market and unworthy the name of even being called a flower. I am not sure but the cause of lice and mildew is not invited by this method of growing.

ENQUIRER.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

IF YOU WANT THEM, SPEAK NOW.

LATANIA BORBONICA, splendid specimens, 6 to 8 feet across, \$15.00 to \$20.00 each.

“ “ fine plants, 5 to 7 character leaves, \$2 each.

PHOENIX RUPICOLA, 24 inches high, \$1 each; \$10 per dozen.

CROTONS, best varieties, 3-inch pots, fine plants, \$10 per 100.

ADIANTUM CUNEATUM, 5-in., fine specimens, 50c. each; \$5 per doz.

CALLA BULBS, flowering size, \$5 per 100.

“ “ to flower in spring, \$3 per 100.

ADIANTUM CAPILLUS VENERIS, the coming Fern for florists.

For particulars, see AMERICAN FLORIST, issue Sept. 1st, page 119.

NOTE—Of this last item we are now shipping splendid stock. PACKING FREE.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5 inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 3-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

Bay City, Mich.



Fancy.

Dagger.

4,000,000

Hardy Evergreen Cut Ferns

SPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

C. C. Abel & Company

P. O. Box 920, NEW YORK.

FLORIST'S, NURSERYMEN'S AND SEEDSMEN'S AGENTS.

For the following—

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedman, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen, Essy, France. Roses, Evergreens, Fruit and Forest stocks.

V. LEMOINE & SONS, Florists, Nancy, France. New varieties of Plants, Flowers and Shrubs a specialty, etc.

ERNST REIMSCHNEIDER, Florist and Seedman, Altona, Germany. Berlin Lily of the Valley a specialty.

THE TOTENHAM NURSERIES, Ltd., Dedesvaart, Netherlands. Managing Directors: A. M. C. Jongkindt Coninck, A. M. C. Vander Elst.

EDM. VAN COPPENOLLE, Nurseryman Ghent, Belgium. Established 1850. Large culture of *Amelanchier*, *Azalea indica* and *Wollia* Bay Trees, *Begonias*, *Gloxinias*, *Palms*, *Rhododendrons*, etc., etc.

ALPHONSE ROCHE, Orléans, France. Extensive and special plantation of *Immortelles* and dyed in all colors and shades.

Catalogues (mention which) free on application when received for distribution. All orders for these houses should be plainly written and addressed to us.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

J. RUSSELL,

103 Van Wick e 1 Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best imported wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.

Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. STEFFENS, N. Y.; A. G. ROLKER & SONS, N. Y.; E. D. SCHUMED, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent

fastener with each letter.

With orders for 500 letters we give away a nicely

stained and varnished box. See cut in next

week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: Marchbanks & Co., 26 N. 4th St., Philadelphia,

Pa.; A. Rolker & Sons, New York; F. E. Mc-

Allister, 22 Bay St., N. Y.; R. Kanfman, Philadelphia;

H. Bayersdorfer & Co., Philadelphia, Pa.; A. D.

Perry & Co., St. Warren St., Syracuse, N. Y.; A. C.

Kendall, 116 Ontario St., Cleveland, O.; E. H. Hunt,

21 Lake St., Chicago; Wisconsin Flower Exchange,

111 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th

and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons,

4th and Marshall Sts., Richmond, Va.; Jas. Vick's

Sons, Rochester, N. Y.; Daniel B. Lord, Buffalo, N. Y.; C. A. Kuehn, St. Louis;

J. A. Simmers, Toronto, Ont., Agt. for Canada.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED

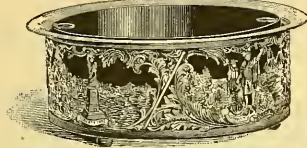
— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

August Rolker & Sons



COLUMBIAN JARDINIERS. Bronze, finest, 10 in. diameter, \$2.00; 12 in. diameter, \$2.50 net.
136 & 138 West 24th St. NEW YORK.

HOT BED AND VENTILATING SASH

CYPRESS GREENHOUSE MATERIAL

CLEAR

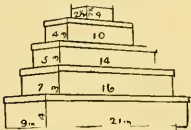
CYPRESS

SASH

BARS

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Paper Boxes FOR FLORISTS.

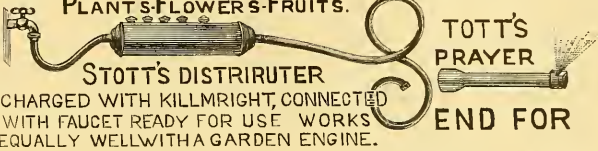


All kinds and sizes. Special sizes made promptly to order. A trial order solicited.

J. HENRY SCHUSTER,
212 & 214 E. Randolph Street, CHICAGO

Always mention the American Florist when writing to advertisers.

STOTT'S KILLMRIGHT SYSTEM OF PRAYING AVE PLANTS-FLOWERS-FRUIT. KILLS, INSECTS AND MILDREW



STOTT'S DISTRIBUTER
CHARGED WITH KILLMRIGHT, CONNECTED WITH FAUCET READY FOR USE WORKS EQUALLY WELL WITH A GARDEN ENGINE.



STOTT'S SYRINGE
CELL "A" CONTAINS THE KILLMRIGHT

CIRCULAR AND TESTIMONIALS.

STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST. NEW YORK.



To the Florist Trade.

We call attention to the *Finest Assortment of*

JARDINIERS

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39, Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,
MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

FOSTITE

cures **MILDEW** on **ROSES** and **CARNATION RUST**. Recommended by leading horticulturists and florists after careful tests.

JOOSTEN'S MAGAZINE BELLOWES, the best for distributing Plant and Insect Powders.

For Sale by Wholesale Dealers, and

C. H. JOOSTEN, 3 Coenties Slip, New York,
Importer of Plants and Bulbs

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
When writing mention American Florist.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.



Mention the American Florist when writing to advertisers on this page.

Kerosene Emulsion.

Concerning kerosene emulsions, the very best I believe to be made with fir tree oil, which unites at once with kerosene and water, and is a perfect insecticide. It is very gratifying to know that the detestable mealy bug is finally vanquished and no more to be dreaded than aphides. I use one part of oil to five of kerosene, diluting according to the insect to be fought; for scale and mealy bug 20 parts of water and for black or green fly twice that quantity. It is exceedingly convenient; when I see any plants infested I mix a little and let them have it. I have used it on many varieties of plants without the least damage, and I think it both cures and prevents mildew. It is a little more costly than soap, but the saving of time and the perfection and convenience of the remedy will outweigh that consideration. Put the ingredients in a pail and two or three workings of the syringe makes the emulsion ready for use, and it will not separate however long it stands or however strong or weak it may be. J. THORNLEY.

Lily Ponds.

How shall I keep my lily pond free from rank weeds? Have had it thoroughly cleaned out, now how shall I keep it clean? What is the best plant to grow in the pond with the lilies and that will suit gold fish? POND.

Troy, N. Y.—Mr. Geo. T. Sambrook (who was with Mr. L. Menand for 16 years) has entered into partnership with his father and will carry on the business of florist and nurseryman. They have built this season one 100-foot rose house with iron frame, one 75-foot carnation house, one 100-foot house for general stock and office 20x30.

DARIEN, CONN.—Mrs. Robinson, of this place, is about to start in the florist business and will erect new houses for that purpose.

OUR . . . HALF-TONE ENGRAVINGS

ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

YOU
Find the Powder,
SCOLLEY
Feeds the
GUN
By Mail for \$1.25.

All florists and amateurs should try the newly invented rubber
Insect Powder Bulb.

JOHN A. SCOLLEY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.



STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.
NORTH CAMBRIDGE, MASS.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

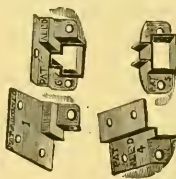
The Whildin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

CATALOGUE PRINTING.
ELECTROTYPING.

Done with expert ability for Florists
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for
either high or low greenhouses. Send for description
and price list.

BAY STATE HARDWARE CO.,
272 Fleetport St., BOSTON, MASS.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

MARSCHUETZ & CO.,
FLORISTS' • SUPPLIES.

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

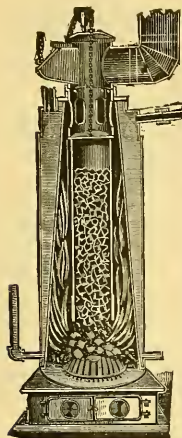
A. DIETSCH & CO.,
CLEAR CYPRESS & PINE
GREENHOUSE RAFTERS
VENTILATORS HOT-BED
SASH GLUTTERING & ETC



Chicago Foot of Sangamon Street.

Mention American Florist

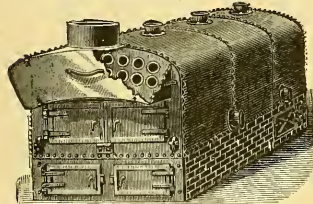
When you write to any of the advertisers in this paper please say that you saw the advertisement in the **AMERICAN FLORIST.**



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information

**HERE WE ARE
AGAIN.**



Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.

MARING, HART & CO.,
MANUFACTURERS OF

Window Glass
MUNCIE, IND.

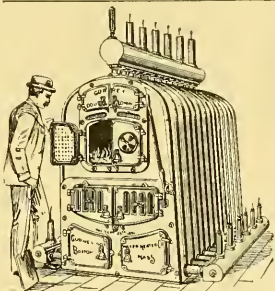
We make a Specialty of GLASS FOR HOT-HOUSES

Mention the American Florist when
writing to advertisers on this page.

**THE LATEST AND BEST
for heating
GREENHOUSES AND CONSERVATORIES.**

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Selling Agencies: { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.

Write for latest prices.

GARDENING

Edited by William Falconer, tells amateurs in gardening what they want to know in plain language that they can understand. Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO., Monon Building, Chicago.**

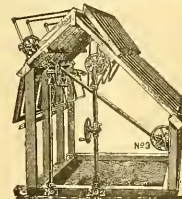
FIRST-CLASS CERTIFICATE OF MERIT.
PERFECT DRAINAGE BENCH TILE. Used by all the leading Growers and Horticultural Builders.
W. P. WIGHT,
UPLAND GREENHOUSES, MADISON, NEW JERSEY
Mention American Florist.

JULIUS TESMER & CO.,
Manufacturers of all kinds of
Ice Boxes

ESPECIALLY FOR FLORISTS.
937 to 941 N. Western Ave., CHICAGO.
—Telephone West 670—

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.

**THE STANDARD Ventilating
Machines**



Received best awards
at
BUFFALO, N. Y.
BOSTON, MASS.
TORONTO, ONT.

Send for Catalogue
and prices.

E. HIPPARD,
Youngstown, O.

Index to Advertisers.

Abel C C & Co.....	410	412
Adv Rates, etc.....	406	
American Belle.....	405	
Andorra Nurseries.....	411	
Bail Lummel.....	411	
Bailor F A.....	405	
Baylis Henry W.....	407	
Bay State Hdw Co.....	405	
Bayersdorfer H & Co.....	414	
Berger H H & Co.....	408	
Blaine A & Co.....	411	
Bonsall Jos E & Son.....	409	
Boston Letter Co.....	412	
Brascentide & Co.....	410	
Brace L B.....	412	
Brauer & Richter.....	411	
Burns & Layton.....	407	
Burrow J G.....	410	
Carnan R W.....	413	
Chicago Cut Flower Ex.....	409	
Chitty H E.....	404	
Cook John.....	405	
De Lamater Iron Wks.....	416	
Dietsch A & Co.....	411	
Dillio J.....	405	
Dreer H A.....	408	
Eckhardt Theo.....	408	
Elliot W H.....	408	
Ellison Wm.....	409	
Faust H G & Co.....	411	
Felchlin Lyman.....	415	
Ford S B.....	411	
Frost James.....	410	
Gardening Co Theo.....	415	
Gardiner J C.....	405	
Gibson J C.....	411	
Gonzalez & Co.....	410	
Gurney Heater Co.....	415	
Hart Asa B.....	414	
Hallett A.....	411	
Hart James.....	407	
Hart Michael A.....	407	
Hartford & Nichols.....	409	
Herold des Glaukens.....	411	
Herr Albert M.....	404	
Hews A H & Co.....	414	
Hill E J & Co.....	415	
Howard E.....	415	
Hitchings & Co.....	416	
Hooker H M Co.....	415	
Horan Edw C.....	407	
Hulsebosch Bros.....	408	
Hunt E H.....	405	
Hunt M A.....	407	
Hunter & Purdy.....	407	
Irvine John Co.....	412	
Jeffords J E & Co.....	413	
Jeunius F B.....	413	
Joesten C H.....	413	
Jordan Floral Co.....	405	
Kankies Bros.....	410	
Kirkland W G & Bro.....	405	
Koffman E.....	411	
Kohl W C.....	412	
Kroeschel Bros.....	415	
Kuehn C A.....	405	
Kuhl Geo A.....	406	
La Roche & Stahl.....	407	
Little Geo W.....	410	
Lockland Lumber Co.....	416	
Lombard R T.....	404	

Long Dan L B.....	407	
Lonsdale Edw.....	405	
McBride Alex.....	410	
McCarthy S F & Co.....	405	
McFarland J H.....	405	
McFarland J H Co.....	414	
McFayish G A.....	405	
Mann J & Co.....	415	
Marling Hart & Co.....	415	
Marschütz & Co.....	415	
Meyer John C & Co.....	415	
Michel Plant & Bulb Co.....	405	
Milling Bros.....	407	
Moffatt G L.....	415	
Moninger John C.....	413	
Moon Samuel C.....	411	
Muore Frank L.....	405	
Mullen Geo.....	407	
National Hot Water Heater Co.....	416	
Niles Centre Floral Co.....	406	
Nelsch A C.....	405	
Olson M.....	407	
Ouwerekerk P.....	411	
Peck & Sutherland.....	407	
Petree & Coleman Co.....	414	
Pennock C J.....	404	
Pennock Sam'l S.....	407	
Pierston A N.....	405	
Pierston F R Co.....	408	
Pitcher & Mandel.....	407	
Randall A L.....	411	
Reed & Keller.....	407	
Reynard Joseph.....	404	
Roberts D H.....	415	
Rocher Theo.....	407	
Rogers Nurseries.....	410	
Rolker A & Sons.....	413	
Russell S J.....	412	
Sander & Co.....	410	
Schmelz Victor.....	405	
Schulz Jacob.....	405	
Schuster J Henry.....	413	
Seidler John A.....	414	
Seldre P & Son.....	410	
Sheridan W E.....	407	
Sherwood Hall Nur.....	410	
Siebrecht & Wadley.....	410	
Stifte Doppel & Co.....	414	
Stitchings, wads.....	415	
Smith C A Floral Co.....	408	
Starr Chas T.....	405	
Scott Garden Imp Co.....	415	
Sunderbruch H L.....	405	
Swayne Edw.....	404	
Tesmer Jullis & Co.....	415	
Tricker Wm.....	411	
Ulrich F J.....	410	
Vaughan C.....	408	
Weathered Thos W.....	416	
Weber E Don.....	408	
Welch Bros.....	407	
Whilldott Pot Co.....	414	
Whitcomb Geo B.....	410	
Wight W P.....	415	
Wilks S M Co.....	415	
Wissasin Flower Ex.....	405	
Wood Bros.....	404	
Young J M & Co.....	415	
Younger Bros.....	407	
Zocher & Co.....	411	

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

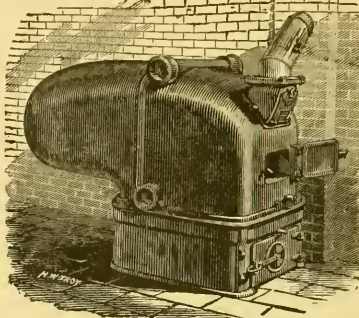
FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.



SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



Mention American Florist.

THE "LOCKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOCKLAND LUMBER CO.

* * * Lockland, O.

AURORA, ILL.—A successful chrysanthemum show was held in the Rink here last week.

WILMINGTON, N. C.—A chrysanthemum show was held here November 9 and 10, under the auspices of Mrs. H. Reeder & Son.

HOLYOKE, MASS.—At the last meeting of the Holyoke Horticultural Society an interesting lecture was delivered by A. Mielcz, of Springfield, Mass. on chrysanthemums.

DENVER, COLO.—C. R. Gallup has opened a retail cut flower store on 16th street. In the Arapahoe street store more space will be devoted to seeds, implements and supplies. The "mum" season is on and we are well supplied with fine flowers. Prices are good. Carnations and roses are also plentiful.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS

Hot-Water Boilers,

244 CANAL STREET,

NEW YORK.

RIDER

SPENCE

HOT WATER HEATER

FOR HEATING

BY HOT WATER CIRCULATION:

NATIONAL HOT WATER HEATER CO.

ERICSSON

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved
RIDER HOT-AIR PUMPING ENGINE



Catalogue with full particulars, sent on application.
DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N. Y.
Mention American Florist.

THE AMERICAN FLORIST



America is "the Frow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, DECEMBER 1, 1892.

No. 235

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY
THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.
The new officers to be installed January 1, 1893 are: Wm. K. SMITH, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Chrysanthemum shows	417
—Springfield, Mass.	417
—Bay City, Mich.	418
—Pittsburg	418
Table decoration at N. Y. show (illus.)	419
—Syracuse, N. Y.	419
—Milwaukee, Wis.	420
—Oshkosh, Wis.	420
—Wichita, Kans.	420
The parrot's feather (with illus.)	420
Chrysanthemum colors	421
Roses—Pot roses for market	422
Two new roses (with illus.)	422
Carnations—Seasonable hints	422
Orchids—Cattleyas	423
Philadelphia	424
Toronto	424
New York	424
Chicago	424
Boston	425
Baltimore	425
Blight of the aspidistra (with illus.)	425
Obituary—W. J. Gordon	426
Cleveland	428
News notes	428
The seed trade	430
Buffalo	432
Houses with short span to south	434
A novel exhibition	436
Fumigating	438
Patents recently granted	438

SOME of the mistakes made by the daily papers in their efforts to report the chrysanthemum shows are very amusing. The *Pittsburg Times* says that "a singular new variety called the 'Incurved' was exhibited by Mrs. L. C. Madeira, of Philadelphia." Also that in the Philadelphia show there were "flowers from 4 to 5 feet across."

Do YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

BOUQUET GREEN is very scarce. The supply owing to early snows in the northern woods seems to be considerably short of the demand.

Chrysanthemum Shows.

Springfield, Mass.

"A wilderness of beauty" was the promise of the Hampden County Horticultural Society for their chrysanthemum show, and certainly the promise was fulfilled, for a most beautiful show it was. Elegant specimen plants from T. H. Hatfield, Wellsley, (not for competition) together with home grown plants were the admiration of all, as was also the cut blooms from all parts of the country.

There were five entries in the class for 12 plants: Miss Maud P. Brewer, Mielzel Horticultural Co., J. E. Taylor's estate, Miller Bros. & Chapell and H. C. Hamilton. Miss Brewer was awarded first prize in this class, for Puritan, Snowball, Goldenrod, International, Gloriosum, Mrs. Benj. Harrison, Marvel, T. C. Price, Sunflower, Mary Wheeler, Source d'Or, Duchess. The second was awarded Mielzel Hort'l Co., for Ivory, Eugenie Giat, Souv. d' M. Menier, Paul Lay, L. Canning, Mrs. Carnegie, Puritan, Valle d' Andorre, Vivian-Morel, Jessica, Shasta and Bouquet Fait. Third went to J. E. Taylor estate, and H. C. Hamilton received fourth.

The next class was for 6 plants, and F. M. Alden, Miss Brewer, Mielzel Hort'l Co., J. E. Taylor estate, Miller Bros. & Chapell, Gurdon Bill and H. C. Hamilton were the contestants. Mr. Alden's plants were very good indeed, but it was his first year at "num" growing, and as he has only window to grow his plants in didn't quite come up to some of the others, but he says he is in it next year. First in this class went to Mielzel Hort'l Co., for Shasta, Jessica, Bouquet Fait, Ivory and Mrs. Gallagher, Gurdon Bill took second for Ivory, Newport, E. G. Hill, Puritan, Robt. Flowerday and International, third went to Miss Brewer and J. E. Taylor estate took fourth.

For three plants of distinct named varieties first went to I. H. Slocumb, New Haven, for L. Cannell, Mrs. R. D'Oyley Carte and Ada Spaulding, while second went to Miss Brewer for Mrs. Benj. Harrison, Gloriosum and Mary Wheeler; third went to the Mielzel Hort'l Co.; and H. C. Hamilton took fourth.

Single specimen plants had eight entries for four prizes, Mielzel taking first for Ivory, Miss Brewer second with Gloriosum, J. E. Taylor estate third with Louis Bochner, fourth went to Gurdon Bill for Sugarloaf.

Specimen standards, "the stems must not be less than 30 inches high from top of soil in pot." I. H. Slocumb, of New Haven, entered a magnificent plant, 27½ inches from soil to branch; had this plant been 2½ inches taller in the leg it would have been awarded first, but under the circumstances the committee recom-

mended that a gratuity be given equal to the amount of the first premium. H. C. Hamilton easily took first with E. G. Hill, and Miller Bros. & Chapell second with Duchess. These two latter entries were far from the ideal standards, not half as good as Mr. Hamilton exhibited last year. Mr. Hamilton's plants filled the only entry in Class 6. Three standards, Duchess, Delie and V. H. Hallock receiving first.

I. H. Slocumb was awarded first for best seedling, it being No. 24.

The display of cut blooms was grand in quality and large in variety. A. N. Pierson, Cromwell, Ct., took everything. He had first for display of cut blooms, Mielzel second and E. H. Howland, Holyoke, third. First for 25 cut blooms went to Mr. Pierson, also 12 cut blooms of 12 varieties, and Wood Bros., Fishkill, N. Y., had second.

A. N. Pierson's H. E. Widener took first for best single bloom, Miss Brewer second with E. G. Hill, and third to Wood Bros. for Mrs. Irving Clark.

Now comes the children's plants, 72 prizes, 8 each of \$2, \$1.50, \$1 and 50c., also 40 of 25c. each, while the girl growing the best plant in the exhibition received a capital prize of a \$10 dress pattern of her selection, and the boy growing the best among the boys receives a \$10 suit of clothes. The winner in this last class was a little lad, one of the youngest among the competitors, but the most pleased exhibitor in the hall. It was worth all this department cost to see the pride and joy upon the faces of these little ones as they came bringing their plants "to the show," and afterwards as the winners filed up to the secretary's desk for their cash.

C. F. Fairfield, grower for the Gale Floral Co., took all the awards for roses except second, which Mr. Mielzel took on La France. Mr. Fairfield's Meteors, Mme. Pierre Guilloits and Brides were especially fine, and his Grace Wilder carnations were superb.

Carnations attracted more attention this year than at any previous show from visitors as well as exhibitors. Wm. Nicholson, from Framingham, sent in a grand collection including Nicholson, a seedling of good quality, after the Wilder color, these were awarded first; E. H. Howland, of Holyoke, took second for collection and third for named variety, Exquisite, a seedling of his, after the style of American Flag, but of more color and good quality; third for collection went to Wood Bros., Fishkill, N. Y., and second for single variety to Ellis Bros., Keene, N. H., for Daybreak.

Pansies came next. Geo. Gengenbach took first for a fine lot of blooms, closely rivaling those grown at Needham.

H. L. Loomis had some fine blooms of clematis, quite remarkable for this season

MASSACHUSETTS
AGRICULTURAL
MUSEUM

of the year. Dexter Snow, of Chicopee, who years ago made a business of pressing ferns, put in a collection of some 75 varieties of pressed fronds nicely mounted for which he was awarded a diploma.

Wm. N. Craig, gardener to Col. M. V. B. Edgerley, put in some extra fine plants of chrysanthemums well grown and in splendid health; there were nearly a hundred nicely grouped with a border of miscellaneous plants, including some fine adiantum, solanum and carnations in pots. Col. Edgerley would not enter for competition although it was the finest collection in the hall. He was awarded a diploma.

Miller Bros. & Chapell were awarded a gratuity for palms, cut flowers and florists' goods. Forbes & Wallace (dry goods merchants) and Quinell & Cushing (fancy goods) awarded diplomas for vases and jardinières.

Nathan Smith & Son, Adrian, Mich., sent a fine lot of chrysanthemum blooms, including their new seedling Nivens. These did not arrive until after the first day's exhibit was over and the judges had passed, but the society voted this magnificent variety a first class certificate, also certificate for Alla Venus, \$25 and Mrs. M. W. Redfield, the bloom of the latter being cut October 20, four weeks ago, a remarkable keeper.

Edward Swayne, Kennett Square, Pa., sent some magnificent blooms of carnations, including Sweet Brier, Ophelia and Thos. Cartledge; these also did not arrive until the next day after the judges passed, but Mr. Swayne was awarded a diploma.

Wm. N. Oaks & Son, of Westfield, sent in a variegated leaf sport of the abutilon Golden Fleece, quite remarkable in its colorings.

The last day of the show was as beautiful as the first two were rainy, and the hall was thronged. Although the receipts were not up to what they should have been, on account of the rain, the management are very well satisfied as they have the satisfaction of giving the finest show in New England this season, aside from Boston.

Mr. W. J. Stewart, of Boston, and W. Mott, of Philadelphia, favored us with a visit. G.

Bay City, Mich.

The second annual flower show under the auspices of the Bay County Hort. Society took place Nov. 15, to 19, in Horticultural Hall.

The exhibition was a success beyond the most sanguine expectations of its promoters although the elements had apparently conspired to frustrate the best laid schemes of the officers of the Society. The morning of the 15th the opening day, the weather was warm and spring like, the second day, Wednesday, set in with a drenching rain and continued all day, effectually shutting off the gate receipts. The third day and indeed the remainder of the week was marked by high winds, rain and sleet alternately.

The attendance was much lighter than if the circumstances had been more favorable but thanks to well matured plans beforehand and a small balance left over from last year the society comes out of the show entirely solvent with lots of vim left for another year. The show was a grand one and visitors came and went away agreeably disappointed, with lots of kind words to help in the future. The hall, formerly a skating rink, has 200x170 feet clear floor space, every available foot of which was filled with well grown stuff.

A full orchestra furnished music afternoons and evenings. The following is a list of the leading awards and exhibits:

Chrysanthemums—Cut blooms—Open to all outside Bay City. Best 100 long stem cut blooms, 20 varieties, five of each, first \$150, Holznagle & Noel, Detroit; second, \$50, N. Smith & Son, Adrian; third, \$25, W. N. Rudd, Chicago. In this class some magnificent blooms were shown, pronounced by experts to be equal to anything ever staged in this country, the competition between the three successful exhibitors being very close. E. G. Hill & Co., of Richmond, Ind., staged 100 magnificent blooms in this class but unfortunately they had lost their foliage and when the time of judging came they were not in it, several varieties, notably Kioto, being the finest ever seen here.

Chrysanthemums—Cut blooms—Open to all. Best seedling, any color, never before exhibited, \$25, N. Smith & Son, Adrian, who staged Nivens, a Chinese seedling, pure white and of perfect form. The second prize in this class was awarded to E. G. Hill & Co., who staged a superb seedling named W. N. Rudd, perfect in form and color. We predict a great future for both these varieties.

In the other open to all classes for cut blooms, firsts were awarded to the Irvine Greenhouse Co., for collection of 25 cut sprays in vases, 13 sprays in 12 varieties, 25 blooms in 25 varieties, 12 blooms in 3 varieties, and 12 blooms bronze; to Holznagle & Noel, Detroit, for 36 blooms in 12 varieties, to W. N. Rudd, Chicago, for vase of yellow and vase of pink.

In the open to all classes for chrysanthemum plants in pots firsts were awarded to the Irvine Greenhouse Co., for ten plants, 4 standards, specimen standard, 50 plants in 6 inch pots, 6 specimens in 10 inch pots and for specimen plants in white, yellow, pink and any other colors; to Chas. Williams for 25 plants in 6 inch pots and 4 specimens in 8 inch pots. In the class for 50 plants in 6 inch pots, Holznagle & Noel, Detroit, exhibited some plants grown to single bloom, many of which did not exceed 12 inches in height, with remarkably well developed flowers and perfect foliage. In the classes for single specimens some very fine plants were shown, notably a plant of Ivory, grown in a 12 inch pot, and having 160 perfect blooms, some of which measured five inches in diameter.

In the amateur plant classes C. W. Hull took five of the first premiums, and J. Pond the remaining three.

In carnations, for best 125 long stem cut blooms, 5 varieties, 25 of each, first went to Irvine Greenhouse Co., second to N. Singler, Washington Heights, Ill., and third to Geo. Hancock, Grand Haven, Mich. The entries were numerous and the competition very close, some superb blooms being shown. The lot that took first prize contained the following varieties: Hinz's White, Garfield, Mrs. Hitt, Grace Wilder, and Silver Spray. The Hinz's White in this lot were the wonder of all who saw them, many being three inches and perfect in form and color. In Mr. Hancock's exhibit a noticeable feature was the elegant pink variety Nancy Hanks, a large, well formed, stiff stemmed variety of the clearest shell pink without a trace of purple. This was undoubtedly the finest pink carnation in the exhibition. Mr. Hancock also exhibited some 30 other varieties, all of merit. In Mr. Singler's exhibit Tidal Wave and Silver Spray were a noticeable feature. These varieties are seldom seen in better form than on this occasion. E. G. Hill & Co.,

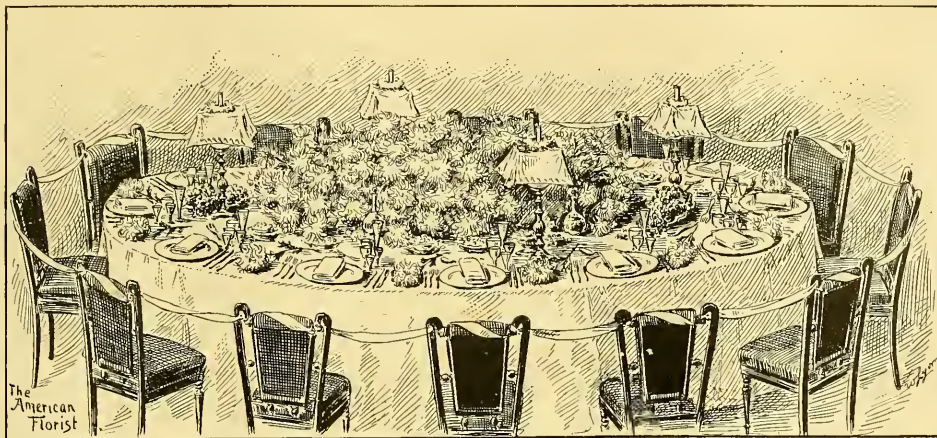
placed on exhibition a vase of their elegant new pink variety Edna Craig and its behaviour on this occasion fully maintains all that its owners claim for it, many of the blooms, after a long journey looking in perfect form at the end of the fifth day, longer after many of its rivals looked very weary. The Essex Heights Floral Co., Belleville, N. J., showed some very fine blooms, those worthy of special mention being Lizzie McGowan, which was at perfection. Chas. T. Starr, Avondale, Pa., showed 125 very fine blooms, among which were some superb Buttercups. If we could only grow Buttercups like this lot in Michigan "yum yum." Unfortunately this lot arrived 24 hours too late to be judged. Jno. Breitmeyer & Sons, Detroit, exhibited a number of their seedlings, some of them of great promise.

The orchid exhibits, both in plants and cut blooms were very fine. Siebrecht & Wadley, of New Rochelle, N. Y., staged some very fine stock. The plants were in the pink of condition and were much admired by all. In connection with this exhibit it is a fact worthy of mention that although those plants had to travel nearly one thousand miles, so skillfully was the packing done that although the plants were full of flower in all styles, not one flower was injured. Pitcher & Manda, Short Hills, N. J., also had on exhibition some very clean young stock comprising most of the valuable commercial kinds, the everlasting and genial H. A. Bunyard being in charge.

The single judge plan was employed. Prof. L. K. Taft, of the Michigan Agricultural College acting in this capacity and there could be no better judge. J. I.

Pittsburg.

The chrysanthemum show is a thing of the past, and if it was not financially a success it has certainly done some good which will last for many days. The members of the club should be proud of the show this year, for in almost every particular it was a much better exhibition than the one last year, and as good as any show given in the east. The quality of the plants was much better than was ever shown here, and it would be hard to beat the specimen cut flowers in size, variety and form. Those who were fortunate enough to attend the show were agreeably surprised and gratified at the splendid exhibit before them, and gave assurance that the only thing necessary for the florists to do, in order to have a good attendance, was to let the public know the character and extent of the show, and we could rest assured of a financial success. But it seems this most important point was somewhat overlooked, or was difficult to do, although the press gave us extended notices each day, but the minds of the people seemed centered on other attractions that were given that week, and strong ones at that, or perhaps the presidential election the week before caused too much consternation among the good people of our town. We should not feel discouraged by any means, over our loss, and remember that so far as the artistic merits of the show were concerned, that we have nothing to regret, for we kept a good show, and if the public failed to appreciate it, the fault was not ours. Our show last year was a grand success financially, and we expected far greater results this time, but were sadly disappointed. Some few of the most sanguine members of the club had already planned a good investment for the net proceeds



DINNER TABLE DECORATION OF CHRYSANTHEMUMS. SKETCHED AT THE NEW YORK SHOW.

of the show, and probably this over confidence had something to do with the result, as matters pertaining to the success of the show were slighted. Considering everything, we should bear in mind that there are ups and downs in every undertaking, and we were up last year and down this, and possibly for the last time, for if we continue our shows, and educate the people by doing so, we will find in a few years time that everybody will attend, the same as they do in other large cities where such shows have been held for a number of years. Another good feature is the advertising that the trade derives therefrom, and last of all, it is quite a factor in bringing the florists together in a social way, developing and promoting a fraternal spirit which is most desirable.

The decorations of the hall were on an elaborate scale, and were quite a revelation to the patrons of the show. The committee on decoration were A. W. Smith, John Bader and E. C. Reineman, but to Mr. Smith the most of the credit is due, as few florists are better qualified to conceive and execute better decorations than we had. The plants and cut-flowers were arranged so as to facilitate the work of the judges, and the judging was about the same as it always will remain, satisfactory to the winner, but not very gratifying to the ones who thought they were in it but failed to catch on. The groups of palms and decorative plants were very fine, and the collection of 20 ferns, exhibited by P. S. Randolph, surprised every one, as they were simply grand, and was the best exhibit of ferns ever shown anywhere. The floral work, which was quite a feature of the show, was most artistically executed, especially the dinner table decoration, for which 5 entries were made, were much better than any shown in Philadelphia or New York. Among the outsiders who sent flowers for exhibition were Nathan Smith & Son, with a lot of seedling chrysanthemums, including his new one, "Niveus;" E. G. Hill exhibited chrysanthemums W. R. Smith, and a fine lot of Edna Craig carnations; Robert Craig with a nice lot of chrysanthemum Louis Childs Madeira and carnation Edna Craig. L. Fawcett, of Salem, Ohio, showed two of his seed-

ling carnations. James Semple, of Allegheny, was the only local grower exhibiting seedling chrysanthemums.

In the plant classes A. W. Smith was prominent, taking first prize for 12 plants, 12 varieties; first for 5 varieties, white; first for 5 varieties, yellow; first for 5 varieties pink; first for best specimens in white, yellow, pink and fancy, and for best 5 standards. P. S. Randolph took first for 5 plants, fancy colors, and for 20 single stem plants in 5-inch pots. Jarvis W. Smith took first for specimen standard; T. F. Becker first for 20 plants in 5-inch pots, and F. Burki first for 20 large varieties, 3 blooms each, and for 10 ditto. R. C. Patterson received first for 12 large varieties, white; 12 ditto pink; 12 ditto yellow, and for 3 plants, three colors.

In cut roses, F. Burki took first premiums on Perles, Mermets, Brides, La-France, Papa Gontier, Niphetos, Beauty and Waban; J. R. & A. Murdoch took first on Mme. Hoste.

In carnations F. Burki took first on pink, red and yellow, while first for white was divided between Burki and Smith.

P. S. Randolph was first for 25 stove decorative plants, 25 ferns, and collection of variegated foliage plants, while J. R. & A. Murdoch were first for 25 palms and for collection of dwarf canas.

Among the special floral premiums N. Patterson received first for a handle basket of chrysanthemums, basket of carnations, box of cut flowers, oval basket of chrysanthemums, arranged vase of chrysanthemums and dinner table. R. C. Patterson was first for flat basket of flowers, bridal set, and wreath of flowers. Ludwig & Richter were first for arranged vase of roses; J. R. & A. Murdoch for flat bunch of flowers, and Wm. Loew for a basket of flowers carved from vegetables (!!!) E. C. REINEMAN.

Syracuse, N. Y.

The annual chrysanthemum show of the Central New York Horticultural Society was held on November 16-18. The large store, 451 South Salina street, in which the exhibition was held, proved too small to accommodate comfortably

the display and the people who came to see it. The show was in every respect the best one ever seen here, and according to Mr. Geo. Savage of Rochester, who acted as judge, was unexcelled by any in the state this year outside of New York City.

The premiums amounted to about \$300, competition on chrysanthemums being confined to growers in Onondaga County. On plants the premiums were divided into three classes, for florists, gardeners and amateurs. There were besides several special premiums, the most notable one being a beautiful silver cup donated by Mr. T. W. Durston for the best specimen plant of W. H. Lincoln.

The cup was captured by P. R. Quinlan, whose plant measured nearly 10 feet in diameter and bore several hundred perfect blooms, with dense foliage, a superb specimen in every way. The plant entered by Geo. Ham was a very close competitor, not quite as large, but with individual blooms larger even than those on Mr. Quinlan's plant. Jos. Hullen also showed a splendid specimen in competition for the same prize.

P. R. Quinlan also received first premiums for largest and best collection of plants and for 12 specimen plants in the florists' classes. W. Clark took second in these same classes, also first for single specimen and for two standards. G. Bartholme was another exhibitor in the florists' classes. His group of 12 standards was very good.

In the gardeners' classes Geo. Ham was very successful, receiving first for 15 specimens, 4 specimens, 1 specimen (Garden Queen), 24 plants and two seedlings, besides several second prizes. Peter Kay, gardener to J. J. Belden, took first for 8 specimens and two standards, second for seedlings and a number of other premiums.

In the amateur's class Joseph Huller swept everything.

On cut flowers Peter Kay led with a lot of superb blooms. His Mrs. E. D. Adams was the largest flower in the show, also Mrs. Alpheus Hardy, Kioto, L. B. Bird, H. S. Kimball and Mrs. Robt. Crawford were very fine. He showed several promising seedlings, among which the most attractive was J. J. B., an incurved

yellow and crimson Japanese. The seedling taking first prize was a great white one, unnamed, from Geo. Ham.

To A. D. Campbell, gardener to Maj. A. H. Davis, was awarded first, also the Davis special prize for largest and best collection of cut blooms. These were all superb and included most of the favorite varieties. Geo. Ham also showed an attractive table of cut flowers, also from Jos. Huller came a fine collection including seedlings.

There were liberal prizes offered for roses and carnations. P. R. Quinlan took all those for roses and was well entitled to them. G. Bartholme had the some good fortune with the carnations. The only orchids shown were a creditable little collection from A. D. Campbell.

The show was eminently successful, the only serious drawback being the heavy rain storm of the first day, which injured some of the specimens while being transported, and delayed the opening of the show until evening.

Milwaukee, Wis.

The members of the Wisconsin Florists' Club have witnessed developments in the production of their second show that are worthy of very careful study on their part if they wish to retain a hold on the public. For while they have improved in growing chrysanthemums the expression "It is not so fine as last year" is by far too common to allow its members to rest easy. The plants and flowers are decidedly an improvement on last year's efforts, but the problem what to do with them after they were grown was not solved. The consequence is that the hall was well filled with gaudy bloom without the relief of foliage or variety of decorations such as tend to help the ladies in ideas of house adornment. There was a lack of united effort on the part of the club to improve the opportunities afforded by the wealth of bloom.

The tables of cut blooms attracted the most attention. The cut chrysanthemums of Currie Bros. were certainly the best ever grown in Milwaukee, and those shown by Mr. Lewis, of Oshkosh, J. C. Vaughan, of Chicago, and Nathan Smith & Son, of Adrian, Mich., were beautiful, but it was interesting and significant that the tables of carnations close by shared the attention almost if not quite equally.

If such carnations could be generally grown this flower would give the others a hard rub. Many visitors who would not admit that they liked carnations could not keep away from them. A few grown by Messrs. Dilger, Dunlop and Gregory were beautiful. Since they have so well shown what they can do it is to be hoped they will take the hints of the public and increase their culture. But the vases of Mr. Dornier's carnations from Lafayette, Ind., most excited the flower lovers. As one stood by it was plain to be seen that Richmond, Western Pride and Wm. Scott were the favorites. Mr. Dornier was awarded a certificate of merit as they were not entered for prizes.

F. P. Dilger displayed a few seedling coleus that attracted considerable attention. John M. Dunlop's single stemmed chrysanthemums are a credit to Milwaukee. C. B. W.

Oshkosh, Wis.

The Oshkosh show opened under quite favorable circumstances, the weather being all that could be desired the first two days. The receipts the first day were

much larger than they were for any year previous. The hall was tastefully arranged, and above all the management was good, every department worked smooth, the writer never attended a show where there was so little friction and as the management was entirely by ladies I will take the liberty right here of recommending the large number of "gentleman kickers" through the country to visit the next show at Oshkosh, they can learn considerable there. The chrysanthemum plants were hardly equal to last year's production. The cut flowers were. Mr. Lewis' table was excellent as usual. Etoile de Lyon attracted the most attention here and it was beautiful.

In front of stage was a very good show of begonias, to the right was a beautiful group of single stem flowers of Mrs. Madeira and Hallock exhibited by J. C. Vaughan, to the left was a group of specimens from Nathan Smith, this contained the popular "Niveus," it received a certificate of merit. Above this group was a large table of beautiful single stem flowers exhibited by Currie Bros., some were uncommon in variety and perfection, but after looking over the various tables one could hardly help concluding that it was hard to beat Lilian Bird. Mr. Geo. Boozer had a good group of seedling chrysanthemums and coleus. The seedling to which was awarded first prize is a beautiful flower, round, the size of Mrs. Madeira, not quite so firm, but a light straw color, a flower which might become quite popular. The names of varieties were not on those exhibits which were entered for premiums but from the manner in which some experts examined the flowers it is fair to predict more information shortly.

The palms and ferns were good, a Pandanus Veitchii with 75 perfect cuttings was enough to make a commercial grower's mouth water. A large plant of Thamnopteris Australiana was very attractive. The display of roses was good. In one entry was a vase of Souperets which were beautiful. The carnations were very good. There was but two entries for basket arrangements. Here was the most marked improvement on last year's efforts. The larger one was arranged with the most taste as to form and natural position of flowers; the smaller one was more tasteful in arrangement of color, but the flowers although choice were too stiff and crowded.

C. B. W.

Wichita, Kans.

The Hypatia Society held a chrysanthemum show in this city, Nov. 17 to 19. There were about 80 premiums aggregating about \$400. Those who think of Kansas only as a grasshopper and cyclone calamity state ought to have been there. I doubt if many of the cities of the country of an equal size could have done as well. The city has quite a corps of florists, including Mueller, Rose, Kulkennmeister, Chatfield and Culp. These are splendid, aggressive, stirring men, and it does one good to meet them.

The hall was very tastefully arranged and to say the blooms were grand is to speak tamely. J. C. Vaughan kindly sent 20 elegant blooms in 20 varieties, Michel of St. Louis, sent about 50, and complained that all their best were gone. If their best were any better than those sent we wonder what they must have been like. And yet barring some novelties and to us, new varieties, the hall contained hundreds as good as these visitors. Every one seemed attracted to a wonder-

ful creamy bloom of immense size, labeled Mrs. E. G. Hill. This and Mrs. M. J. Thomas seemed to be the favorites. Louis Boehmer was there in full glory; Mueller had a plant of this with about 30 very large perfect flowers. Diana showed her excellence as a workable flower, Canning melted sooner than any other. There were nearly 200 vases of cut blooms and over 1000 plants.

Almost as soon as the show opened buyers were alert and plants were sold fast at good stiff prices. But the purchasers were almost determined to pull the show to pieces by carrying off their purchases.

Among cut blooms Mrs. Hardy was represented by only 3 inferior specimens. There were elegant specimens of Mrs. J. Jones, Tuxedo, Roslyn, Waban, Beacon, Hallock, Madeira, Jessica, Mrs. E. G. Hill, Mrs. M. J. Thomas, W. H. Lincoln, M. Boyer, Singler, H. Cannel, G. Walcott, Stanley, Ivory, etc.

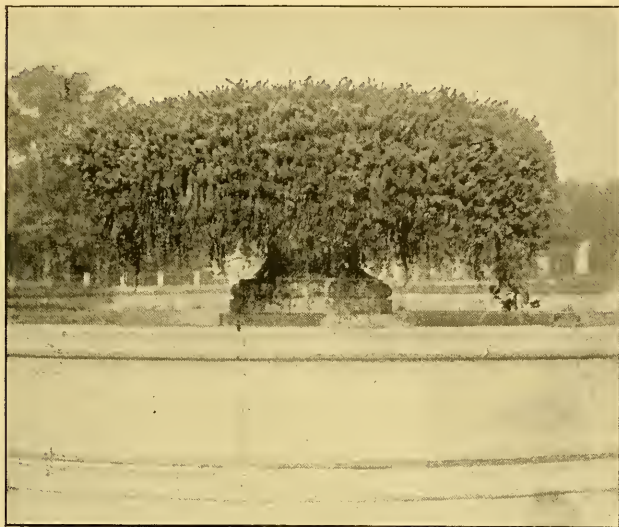
I went by invitation to act as judge, and decided on 76 premiums and I think they were all well placed. There were some elegant baskets, plaques table decorations, etc. A Japanese booth with tea was presided over by a bevy of handsome young ladies in costume. Elegant meals were also served.

Wichita is to be congratulated upon her success in extending the influence of Autumn's queen, and of striving to elevate society. The weather on the day of opening was stormy with rain, but the three show days were regular Kansas days. Music was provided, day and evening and a promenade concert held all the time.

WILLIAM H. BARNES.

The Parrot's Feather.

The accompanying illustration gives a good idea of the use to which one of our recently introduced aquatic plants can be put. The name of the plant is Myriophyllum piosperinacoides, a name sufficiently repulsive to the ordinary reader to warrant him in having no further connection with the plant. It is better known, however, under the common name of Parrot's feather, which by the way is a very applicable one, as the fine pinnate leaves resemble to a marked degree the green colored feathers of that bird. The illustration is from the fountain at the north entrance of the U. S. Treasury Department at Washington, D. C. Mr. Feast, the gardener in charge, conceived the idea of having the water shed of the fountain fringed with this plant, after seeing it growing over the edge of some aquariums at the establishment of Mr. Edward S. Schmid, of this city. Mr. Feast had some good rich soil prepared and placed in the upper part of the fountain, or the water shed, which stands some 3½ or 4 feet above the basin. A few dozen robust growing pieces of this plant were then dibbled in and then covered with some fine gravel; after that pieces of rougher stone were placed upon the gravel to prevent the soil from being washed out. In a remarkably short time it made a rapid growth, and by the middle of July it had grown to its present dimensions. It presents a most unique and striking object standing as it does in such a prominent position, and is admired daily by the thousands passing up and down Pennsylvania avenue. It was admired by many attending the Florists' Convention last August, many of whom might have been seen standing gazing at it with notebook in hand. The plant covers about 12 feet in diameter. Myriophyllum is from two Greek words, myrios,



THE PARROT'S FEATHER.

myriad and phyllon, a leaf, in reference to the numerous divisions of the leaves. It is a native of Brazil and Chili, growing very dense, having an extremely feathery appearance. It requires mud to root in and is easily increased from cuttings. The stems are weak, but do not require support, all the pretty points of the shoots growing out of the water from 6 to 14 inches. In the illustration the shoots are hanging over water shed from 2 to 3 feet. It is a very handsome and interesting plant and should be in every collection of aquatic plants; it is a fine thing for amateurs.

C. LESLIE REYNOLDS.

Chrysanthemum Colors Under Artificial Light.

Artificial light of whatever nature has a very great influence over color; perhaps the arc electrical light exerts the least influence of any, but at best its influence is considerable and it is also objectionable.

In a large display of flower color like that in a chrysanthemum show there is every reason why the exhibitor should arrange his colors with strictest deference to the illumination of the hall in the evening; unless he does so he will be sure to find that under artificial light his flower groups have some surprises, and I will add, some disappointments in store for him. It is a fact that one often hears the remark, "how different this looks under gas light." Well, it is quite possible that if no consideration is taken of the effects produced by artificial light such a remark of sheer surprise must follow as a natural sequence. There are certain facts about colors which we must always bear in mind when gas light or electric light comes into consideration.

First, all artificial light in common use to-day throws more or less yellow on all surrounding colors. Theoretically, then, it would seem natural that a yellow object should appear yellower. That it is yellower is a fact, but that it appears

yellower is not a fact; on the contrary, much of the yellow is gone, and why? Because we can have nothing perfectly white near by for comparative examination; we are dependent upon comparisons for most of our knowledge of things to-day. We know a very pretty girl is very pretty, because we have seen one that is less pretty, and we know a homely one is homely because we have seen a good looking one.

Yellow, then, under yellow light is less yellow because everything around it is more or less yellow. Produce for an instant white, say by magnesian light, and you will see where your yellow is. We must not forget, then, that our eyes have become so accustomed to yellow light every night that we have, as a consequence, lost all delicate appreciation of its color influence, and quite frequently we think it cuts some queer capers with colored objects.

Second, there is a glamor about artificial light not without its ardent admirers. There are many picture dealers who purposely exhibit the paintings of certain masters under artificial light only. It is possible to obtain concentration of light best by shutting out diffuse day light and accenting the brilliancy of a colored object by the aid of bright light and the contrast of a few dark corners. These are the only two matters of importance regarding color under artificial light which claim our attention while studying chrysanthemum colors. It does not concern us now what the true colors of the chrysanthemums I mention really are; we want to know what they look like when the hall is lighted, and we will use color names which will, so to speak, represent daylight colors. If we want to see what the rich red (not crimson, I hold red something very different from a crimson red) of the Cullingfordii really is now is our chance at night, put Cullingfordii right under the incandescent somewhere, and then see how gloriously he burns. The Miss Helyett on the contrary will

not burn; she is pretty cold, yet she needs to be under strong light, but do not let her approach near the Cullingfordii. Her color at night is deep maroon inside her petals and a cold dull pink of the maroonish order outside. She is extremely cold looking and a good neighbor for white or pale yellow flowers.

The fine needle petals of the Duchess of Albany are ruddy orange in color, not clear and pure in tone, but hazy looking, a trifle uncertain withal; the delicate reflected deep brown-orange of the center can not be called by any positive one-color name. And Pedro Diaz, what a color he has, there is deep red Spanish blood in his petals. I should call the color a deep brown orange-red. The outside tips of the petals are of the same color paler, inside they look actually crimson when examined closely, yet in effect the crimson color savors more of maroon. Shenandoah is another kindred spirit, but not so intense in color; here again is a brownish orange on the inside lines, but the outside appearance is pale and yellowish, a color not unlike the toned weak yellow on the Mrs. Frank Thomson's outer petals. Both these flowers guard and shield their inner color tones very cleverly. The brown orange of Shenandoah ends in a general effect of pale pinkish brown where viewed from a distance.

In daylight every vestige of brown tones would disappear in all chrysanthemums, probably the yellow light is accountable for the hazy maroon browns.

We must bear in mind that the color-word maroon is derived from the appearance of the chestnut. There is no muddy color in the chestnut's shell, it is rather translucent in quality and well simulates the shadowy depths of certain chrysanthemums under artificial light. Abbie Mendenhall, in a word, is of a pale pure yellow color, so simple and so unqualified is her pure yellow that I hunted for a Ralph Brocklebank, but in vain, to see which of the two could claim the nearest relation to the true prismatic yellow.

I found a specimen of the Mrs. Jerome Jones, so pinkish white in tone, that I examined it carefully to note its color depths. These were salmon in tone, perhaps a salmon nearly related to flesh color. If we will hold the palm of our hand close up to a gas jet and slightly open our fingers (not more than an eighth of an inch) just so we will lose the intensity of the deep pink, we will see there a suggestion of the dainty color I found in the depths of this particular specimen of Mrs. Jerome Jones; other blooms I noted were without this lovely tint. Minnie Wanamaker seemed pure white, but a close examination of the color tone in the heart of the flower revealed the presence of reflected yellow. The Mrs. Alpheus Hardy's snowy crest has a far nearer claim to the pure white. H. E. Widener shows a pale golden yellow, and in the deep reflection of color a stronger gold tone, what I call by my paint box standard deep cadmium yellow. Pelican looks purely white, but again that reflected pale yellow shows itself ever so slightly in the depths of the petals. A remarkably delicate specimen of the Mrs. Frank Thomson showed a pure cold pink, streaky looking inside the petals and a very pale waxy pink outside. In other blooms the pink was crimsonish and coarsely streaked. Mrs. C. H. Wheeler at the heart showed a crimson touched with dull scarlet, but where the high light struck this color it was pure, bright scarlet in a small spot. The outside of petals were pale dull yellow, not orangish

exactly but toned with a tiny bit of red. Maud Dean seemed a pure pale pink beauty with a green boss at the center and deep reflections of pink inside the curled petals. Outside these were pale and waxy in color like Mrs. Thomson, but not so delicate. Mrs. J. W. Crouch was in color effect deep maroon, but not dark. Surface of petals whitish maroon, perhaps a dingy pinkish tone. The actual color of inside surface of the petals is nearly crimson. V. H. Hallock showed a pure deep pink cold in quality, but apparently true. Harry May one could call orange yellow in tone, but a tone so broken that the yellow and red of its composition seemed unmixed. The color in its depth was ruddy orange. Superbiflora shows that magnificent night maroon color in the depths of its heart, its outer petals glow in an uncertain crimson pink some light, some deep in tone. Mrs. J. N. Gerard has a dainty deep pink on the inner surface of its petals, and on the outer surface a pale dingy pink. The center of the flower is deep in color, but the general color tone is æsthetic rather than pure like the Mrs. Thomson.

These are the colors of the flowers seen under incandescent light. Every rule relating to color combinations in daytime applies equally to these given color tones at night. But it must be remembered that a concentration of artificial light on the deep toned flowers will bring about some telling results, and vice versa, it will be throwing away pains and attention to force the cold and pale toned flowers into the same strong light. The best positions for white, pink and pale yellow chrysanthemums under yellow light are against dark green or very shady backgrounds. For effects of contrast let white and pale yellow play at a side figure near a strong red or orange subject. We must never forget that yellow and pink are never friends under any light. Separate them at any cost, and give Cullingfordii, Vivian-Morel and Val d'Andorre all the bright light they really need. F. SCHUYLER MATHEWS.



Pot Roses for Market.

ED. AM. FLORIST:—I have taken out of the ground and potted over one thousand tea roses, put them in a cool house and plunged the pots to the rim. I want to get them in bloom by April 15 for market. Will you please tell me the best treatment from now on, whether they need more heat, if so, when and what degree of heat is required? I keep them from 40° to 50° now.

Pittsburg.

E. D. J.

After the tea roses have been potted and plunged as above described they should be kept for a month or two at a temperature of 30° to 35° at night; if it goes occasionally as low as 22° it will do no harm until the young roots come, after which the ground should not be allowed to freeze on account of checking the new roots. In March they may be given more heat, say 45° to 50° at night with plenty

of air in day time, when the weather is not too cold; this treatment will make the wood and foliage hard and less liable to mildew, which is the great enemy of tea roses in early spring time. If specially good plants are desired they should after first of March be given an inch of room between the pots to encourage them to break all the way down. Tobacco stems between the pots changed once a month will keep away greenfly, and sulphur on the pipes will prevent mildew. An occasional (say once a week) watering with weak guano water after March 1 will improve both foliage and flowers.

ROBT. CRAIG.

Two New Roses.

We present in this issue a plate from a photograph of the two promising new roses Mme. Caroline Testout and Kaiserin Augusta Victoria. Both varieties have been described in these columns, and much has been said in their favor by growers who have tried them.



Seasonable Hints.

It is immaterial what kind of sand is used for propagating purposes so that it is clean and sharp. There is no use being fastidious in this particular. We have seen equally as good results with all kinds of sand to be had in this locality. Road sand is as good as any, and many here prefer it to any other. It can generally be obtained in sufficient quantity at our doors and costs nothing but the hauling. We would say, however, to use that sand which is the cheapest and most convenient. Run it through a coarse sieve the same as is used for potting soil.

The propagation of the carnation can not be done with too much care if we would preserve our stock free from disease, full of vigor and with blooming qualities unimpaired. The stock may be kept true to name by care and vigilance the whole year round. If a chance stray is found in any named variety it had better be removed at once than run the risk of contaminating the stock. Of course if we grow for flowers alone this matter is not so important, but when cuttings are sold as well the trade demands and our sense of justice should dictate the advisability of keeping our stock true to name.

We should never propagate from any but the best healthy plants, or rather we would say *shoots*. Disease can in great measure be overcome and eradicated by this means and our stock improve in vigor and excellence. To preserve the blooming qualities of our plants we must propagate from nothing but good blooming wood. Taking a blooming shoot of the carnation we find first the terminal bud, below it the lateral buds growing from the axil of each leaf. Below the last lateral bud will be found the pips also in the axils of the leaves, and these will usually grow into flower shoots. These pips are the proper wood to take, leaving one or two of the lower ones on the stem to grow. Plants will thus yield on an average about as many pips as flowers

during the season. We contend if more are taken it robs the plants of vigor. On the other hand the few pips thus taken from a shoot are probably an advantage, as the strength of the plant is thrown into the one or two remaining. These will produce better flowers than if all had been allowed to grow. The practice of taking the pips indiscriminately and cutting up the entire plant for propagating purposes should be discouraged. The so-called degeneration of varieties is in our opinion largely due to this cause.

Avondale, Pa. W. R. SHIELMIRE.

Lily of the Valley Pips.

Various experts have been writing at times about the best methods of forcing valley pips, but to secure the best results the *sorting* should not be overlooked. You may say, pips should be sorted before being offered for sale. So they are, in so far as the non-flowering ones are as a rule sorted out with sufficient accuracy before shipping from Europe. But of the remaining flowering pips not all are of the same size, the same constitution, the same rooted condition, and therefore not fit to be forced as they run without incurring loss. Here the work of the florist commences, and a few guiding words may be of interest to some of them.

The medium sized, long, rosy colored, solid feeling pips with nice fibrous roots are the best for earliest forcing. The larger pips, often with less fibrous roots, will come best as seconds. The short rooted ones should be kept as lasts; but those pips of a greenish brown color with hard points are best left for growing in the cold frame and not forced at all. In cutting these latter the embryo foliage and flower appear of a pronounced green tint, while the others show a yellowish tint. These green pips move very hard and would if planted between the others only prove a loss.

Only the greatest evenness in flowering will give the best returns in money, therefore it should pay to sort the pips in accordance before setting out in the forcing bed. Where large quantities are used, and time counts, a short glance at the bunches may be enough for an experienced eye, and the throwing out can be done when planting the pips; but quantities of only five to ten thousand are best reassorted on receipt of the pips and then buried in the cold frame for use as desired. The best pips—as put up abroad—will not run even; neither is it reasonable to expect it for the little money that is charged nowadays. In selling flowering pips the foreign grower warrants them only to be of the proper age for forcing purposes (three years) and that nearly each pip holds the embryo flower (the general limit allowed is 95 per cent). But between three year old pips is as much difference as between three year old children; some are more robust and advanced than others, that is why the reassorting before setting out for forcing will pay well for the trouble taken.

One word about the forcing proper. The average experience of successful growers teaches that pips are best stored outdoors, tied up in little bundles and taken up for forcing as wanted; if frozen, take up gently and thaw out before handling; unnoticed injury at this time may cause rot in the benches when under heat. As pips form no roots during the entire forcing process, but require lots of drink during their exposure to the heat of the forcing bed, it will be found advantage-

*Mme. Caroline Testout.**Kaiserin Augusta Victoria.*

TWO NEW ROSES.

ous to give them a good long drink at the start by keeping them soaked in a tub of water at least twelve hours before planting, say soak them in the evening until morning, and then plant. In order to increase their power of suction, cut a little off the ends of their roots; these are mostly wilted and dried at the ends, and this cutting off prepares them better for their prospective work. If planted at once on receipt, in flats, to be thus stored away, this extra soaking process cannot be attended to so thoroughly.

WINFRIED ROLKER.

New York, November, 1892.



Some Florists' Cattleyas.

There is a number of truly beautiful varieties of this popular orchid in cultivation, many of which would make a most pleasing effect among any floral arrangement, but they unfortunately are either beyond the reach of a florist's pocket (commercially speaking) or produce flowers at a season when low prices are prevalent viz:—during the summer months, although in some sections, we hear of summer blooming cattleyas being largely used for steamer work.

Florists' cattleyas are not numerous, especially those that in every way possess first-class qualities, such as can be procured at a reasonable figure and produce blossoms that are large, durable, and

pleasing in color, together with a free flowering habit, easy growth, and at a useful flowering season. To secure a supply of flowers during the winter months the following kinds possess the qualities above mentioned.

Cattleya Gaskelliana; nearly ten years of culture has made this a well known plant and owing to its very free habit it has become universally popular. Flowers 5 to 7 inches across varying in color from white to amethyst purple, lip open and handsomely frilled, usually with a blotch of purple; 3 to 5 are produced on a stem during August and September and remain a month in good condition.

Cattleya Bowringiana. During October and the early part of November this cattleya is in flower. As many as 20 blossoms are borne on an individual spike, and the smallest healthy plants will bloom. Five years ago large importations reached this country and we now find it both in amateur and florists' collections, growing and flowering most freely. We recently saw a wonderful specimen carrying 200 flowers in Mr. F. Ames' collection at North Easton, Mass, and a number of small plants at Kent Place Nurseries, Summit, N. J., where they have been flowering annually for the past 4 years with wonderful freedom.

Cattleya labiata; of this much has been written. It fortunately can now be secured at a nominal figure, as quantities have been imported during the past year. Its bold striking flowers will always make it a desirable orchid; they are now in bloom here, and can be had on until Christmas whenever a quantity is grown. The blossoms measure 5 to 7 inches across, and vary in color from the purest white to a rich warm purple, and by artificial light possess a charming glisten-

ing appearance. They have also a very pleasing fragrance, 3 to 5 are produced on a stem and remain in good condition 3 to 5 weeks.

Cattleya Percivaliana. The flowering season of this variety immediately precedes *C. Trianae* and many varieties of the latter are in bloom before *C. Percivaliana* is past. The flowers measure 5 to 6 inches across and are remarkable for their richness of coloring, especially in the labellum, which is usually of a deep velvety purple.

Cattleya Trianae. Of all cattleyas this undoubtedly is the most popular of the winter bloomers. Imported plants are now distributed in many florists' houses, and many of the prominent palm growers are utilizing the roof of their houses for the culture of this fine orchid, where it grows and flowers very freely. During December, January and February, flowers can be had, provided a sufficient number of plants are grown. Three to five are borne on a spike, sepals and petals usually soft lilac, furnished with a purple blotch varying in intensity. The varieties of this are endless, the snow white form being still extremely rare.

Cattleya Mossiae. This is a well known plant, being one of the oldest cattleyas in cultivation, but it still retains its position among the most showy and useful. Its flowers appear during March and April, and remain 4 weeks in perfection, and invariably measure 6, 7 and sometimes 8 inches across. The forms of this are very numerous, the white variety being occasionally met with, but it is still very scarce. The prevailing color is of a fine rosy lilac, the lip being broad and finely fringed, veined and blotched with bright purple.

Cattleya Mendelii. For exhibition pur-

poses this will be found most valuable; it flowers during April and May, and the size and beauty of its blooms, make it most desirable. Three and four flowers are produced on a spike, sepals and petals broad, very faint lilac in color, lip very large, frilled, and of a very intense purple. The combination of colors is more striking in this, than in any of the preceding, and whenever the plant is in flower it is always very much admired. The above mentioned varieties will thrive and bloom in any palm house, provided ample light and air can be admitted, carefully avoiding the direct rays of the sun during the summer months. A temperature of 60 to 65 degrees will suit them, and a few degrees higher with sun heat will also prove beneficial. Flowers of these orchids can be had from the month of August on until April and May, wherever the varieties mentioned are grown. Pans and baskets are preferable, with a compost of good fibrous peat and very little sphagnum added, but ample drainage is necessary. A. DIMMOCK.

Philadelphia.

The weather has been much cooler the past week, the freezing point being reached several times. Such weather at this season of the year makes flowers very scarce, especially roses. Perles, which were recently to be had almost for the asking, brought 4 and 5, and were soon all bought up. Other roses were equally scarce, and higher prices were the rule. Mermets and Brides are now beginning to look quite natural, Mermets especially receiving more than a passing glance. When in good form and color this is the best selling of all the pink teas, although Mme. Cusin has of late become a dangerous rival. La-France, Mermets, Brides, Cusins, and Meteors bring from 4 to 6, smaller roses 3 to 4. Carnations have taken a jump and $1\frac{1}{4}$ to $1\frac{1}{2}$ is now the price, except for short whites, which appear to be a drug, and sell for from 50 to 75 cents a hundred. There seems to be a great plenty of white and pink carnations, while shades of red are scarce. Valley sells for 6, hyacinths and narcissus 4 to 5. Double violets are scarce, very scarce, and the single ones with which the streets have been lined ever since the season opened, are also hard to get in any quantity.

There are still plenty of chrysanthemums, but a great many of the growers are cut out. Harris will in a short time have the market all to himself; he has fine beds of White Mont Blanc, yellow Mrs. Blaine, Eva Hoyt, Mrs. Herbert Pennock, and Mrs. Chas. Dissell, all fine late varieties. Those in the market now are Lincoln, Canning, Widener, Kioto, Mrs. J. Wescott, Madeira and Violet Rose. Prices range from 1 to 2 dollars a dozen.

Business has been good. For Thanksgiving Day there was quite a big demand, and a great many chrysanthemums were sold, both cut flowers and in pots.

Good Beauties are very scarce, and sell readily. Until hybrids make their appearance they rule the roost, and many customers will have Beauties or nothing.

The Horticultural Society is already hard at work on the premium list for next year's chrysanthemum show. Secretary Farson says: "Now is the time, while the last show is still fresh in the minds of the members, to arrange for the next one. Many improvements are suggested while one is inspecting an exhibi-

tion that are forgotten if not acted on at once." It is to put these suggestions into practical form and correct mistakes that the schedule is now being prepared.

Charles Lamb, foreman for John Burton, has been confined to the house the past two months with rheumatism, and it is feared that his illness may result fatally, as on Saturday last he had a stroke of paralysis, and at this writing is very low. Mr. Lamb entered Mr. Burton's employ as a boy, and has grown up with the business. He has been very successful with roses, making them his specialty, and is a very intelligent and conscientious workman.

Bowling matters still receive attention from the boys, and the match between the Delawares and Schuylkills Wednesday last resulted in a victory for the Schuylkills, being their first for some time. Now that the tide has changed, they say it will keep going their way, and the Delawares will have to look out for themselves.

There is an effort on the part of some of the members to add an athletic department, and it may be that when they get done boxing chrysanthemum flowers, they may get together and box one another. There is nothing like being "hand in glove" with your fellow members. K.

Toronto.

Cold weather has set in here in earnest now and I suppose we must make up our minds to receive the winter with as good grace as possible; the thermometer was only to 14° above zero last night (22d).

After the excitement created by the late defunct chrysanthemum show things seem a little dull, and the only thing that prevents one falling with a thud into ordinary every day life is the accounts of shows in other cities set forth so ably in the horticultural papers. The chrysanthemum number of the *FLORIST* is being eagerly devoured; it contains food enough to last for many winter evenings.

Now, to get down to hard facts concerning the chrysanthemum show here, it must be admitted that it was not a financial success, and it is not very satisfactory consolation either to find that similar shows in other cities are in the soup too. For our own show I can say that having had three years' experience it was better advertised and everything was managed on the most approved system and in a systematic way and the show was in every way a distinct improvement on that of last year. Decorations were immense, cut flowers were bigger, plants were more tastefully arranged, prices were higher. Why did not more people patronize it? The admission fee of 25 cents for adults, 10 cents for children was surely not too much. Now there is plenty of time to talk this matter over before next November and suggest remedies, and I would propose that the S. A. F. get some good man who has successfully managed a show to give an essay on "How to make a chrysanthemum show pay in cities of 100,000 to 200,000 population." I trust we may be able to steer clear of charitable institutions and run the thing on its own merits. I have a holy horror of mixing up charity and horticulture in such a manner.

At the last meeting of the Gardeners' and Florists' Association, which was well attended, the treasurer gave a partial report of chrysanthemum show. He was able to report that in spite of the deficits

of last year and this year the association was still solvent and would pay all accounts and prizes in full. Nomination of officers for 1893 was also in order and before any one could move that the nominations for president close the secretary had got down nine names. It is difficult to prognosticate as to which one of the nine will be the successful candidate, and as that little bird that deceived your correspondent last year will not dare to show himself this year there will probably be no prophecies as to the result. "The best system of heating" was the subject of a long and interesting discussion. A point made by Mr. Gilchrist, which is worthy of the attention of boiler makers was that none of the boilers made at present have sufficiently large egress and ingress.

Business generally is not very lively yet. E.

New York.

Thanksgiving Day trade in cut flowers was fairly satisfactory. Good stock sold well, but there was not that general cleaning out of stock which is to be expected as a rule on holidays, and of inferior stock there was considerable left over. The retailers bought generously in anticipation of a big demand, but it did not materialize, except in the direction of the magic colors, blue and yellow, representing respectively the two foot ball teams from Yale and Princeton, which were to contest for the football supremacy on Thanksgiving Day. The result was that violets and yellow chrysanthemums were in great demand, and prices rose accordingly. Violets are scarce anyway, and \$3 per hundred is not an unusual price to be paid for number one stock, while the average price obtained is as high as \$2 per 100. There is a good supply coming in, but they all go at sight.

Of chrysanthemums there is but little obtainable excepting white, Mary J. Thomas, Flora Hill and Crystal Wave having the market almost entirely to themselves. If a good late yellow or pink could be obtained there is almost no limit to the quantity that might be disposed of. Lily of the valley is rather scarce. Roman hyacinths, while in pretty good supply, sell well. Paper white narcissus on the contrary is dead stock. It is almost unsalable at any price. This has been the tendency for the past two or three seasons, and it would seem that this once popular variety was not worth growing, in the present temper of the buyers. Carnations are gradually tending upwards in price, pink being the leading color. The quality of roses on the market is improved greatly. American Beauties are beginning to soar and first-class blooms have been sold as high as \$9 per dozen already.

Chicago.

Prices still remain at the same figures as Thanksgiving day. During the holiday week trade was good, averaging in bulk about the same as last year, but taken all together business for November has not been so good as we usually expect; the season so far has been quiet.

Flowers are generally of excellent quality, but they are short in quantity. Violets still continue the scarcest of all flowers, and they are still high in price, though buyers here will not pay quite such high prices as are obtained in New York. Nearly all the violets here come from

northern New York, the local supply being literally non-existent. Chrysanthemums are running very short in supply, and are generally poor, the quantity of pink being especially short. Roses are very good as a rule, excellent Albany, La France and Perle being seen. Carnations are good, but scarce. Yellow carnations are almost unobtainable; Buttercup does not seem a success here. Roman hyacinths and paper white narcissus are more plentiful, but the latter is still poor, seeming quite flimsy in texture.

Walter Kreitling has a large show window and store space on Wabash avenue for the month of December, this space being devoted to the holiday trade in wreathing and other Christmas greens. The window space was very handsomely decorated with roses for the opening, making a very showy display.

The new conservatory at Lincoln Park is now filled. The arrangement is most effective and reflects the highest credit on Superintendent Pettigrew. Not a bench, box or pot is to be seen in this noble building. In the center is an undulating raised bed of soil, the irregular margins defined by low rockwork, all the large palms and similar plants being bedded right in the soil with lycopodium set so thickly that the whole surface will soon be covered. Along the inner edge of the rockwork margin and in pockets provided for the purpose various vines have been so placed that the rockwork will soon be partially covered with verdure. Around the sides of the building in lieu of the usual benches narrow beds of irregular width are defined by low rockwork similar to that which surrounds the center bed. Here the lower growing decorative plants have been bedded out, and where these side beds flare out to a considerable width a path will lead in to a little grotto where an effective planting of ferns will be found. It is the highest type of the natural arrangement of conservatories we have yet seen.

Boston.

Thanksgiving week has as usual put new life and spirit into the cut flower trade. There has been an advance in prices and increased demand all along the line. Cold weather has prevailed and this condition has also helped in the revival.

There has been no decided scarcity of anything, with the exception of violets, but just enough steady demand to use everything up clean, exactly the state of affairs which if it were only possible for it to exist throughout the year, would make the cut flower business in all its departments one of the nicest employments in the world.

Chrysanthemums are on their last legs. There will be quite a lot of them coming in for some time yet, such as they are, but they are small, bedraggled, weak looking remnants, and miserable reminders at best of their former glory.

Violets are still at a premium. Roman Hyacinths and paper white narcissus are coming in freely and stevia and bouvardia are beginning to appear.

The sensation of the week has been the destruction by fire on the morning of November 23, of the home of David Allan. The fire started from some unknown cause about 3 a.m., Mr. Allan being awakened by his collie dog in time to get his children out safely, but beyond the lives of the inmates little else was rescued from destruction. Silver cups and numerous medals, highly prized reminders of Davie's skill in horticulture, horticultural magazines and books, the accumula-

tion of thirty years, heirlooms and souvenirs which can never be replaced, besides furniture and clothing, all went. The only pleasant feature is that the goods were insured. Mr. Allan has the sympathy of a host of friends, and has received many condoling letters since the occurrence. His address will hereafter be Mystic Ave., Winchester instead of Mt. Auburn, Mass.

Harry Bayersdorfer, and John Walker of Philadelphia, are in town.

Baltimore.

The last few straggling chrysanthemums are in the market, and very forlorn looking things they are in comparison with the beautiful globes of silver and gold and amaranth of a week ago. Really, though, the show was a week later than it would have been but for the presidential election and was just about the end of the season as far as fine blooms were concerned.

The boys are jubilant over the successful exhibition, which, at this writing,



BLIGHT OF THE ASPIDISTRA.

seems to have been the best ever held here from a financial standpoint. Considering the long drought, the hot season and the lateness of the date at which the show was held, they have reason to rejoice over the character of the plants and flowers staged, too, for though the plants may have been a little "off" and not quite up to the high standard of last year the cut flowers were far ahead of any seen here before.

The scarcity of "mums" revives the demand for roses, which the cold snap of Wednesday seems to have held back, for the town was bare of them as well as other good flowers generally on Thanksgiving. Prices, however, have not advanced, probably owing to the poor quality of most of the flowers received.

The first Bachelor's German was held Monday night and used up the usual amount of flowers the society buds who bloom for the first time seeming to need,

if anything, more flowers to adorn them than the experienced debutante of two or three seasons ago.

The only decoration of consequence was that at the banquet of the National Convention of Saddlers at Hotel Rennett. The only flowers used were chrysanthemums, and only one variety allowed in any vase, group or bank; as the flowers were almost large enough for the show the effect was very fine. The masses of tall areas in the corners and around mirrors being lightened up by great Japanese vases filled with clusters of huge nodding yellow or white blooms.

The only thing that seems to be at all plentiful is smilax, which can be had in any amount and very good quality at 20 cents a string. Violets are very, very scarce, carnations and buds are but little better or more plentiful, and the stagnation of a few weeks ago is replaced by a demand that can not be supplied.

MACK.

The Blight of the Aspidistra.

One of the very effective plants for out of doors during the summer months is the *Aspidistra lurida*. There is a variety of this, the *A. lurida* var. *variegata*, that has a portion of some of the long graceful leaves of a white color. This etiolation may prevail throughout the whole plant, but usually it is limited to a few of the leaves and then is generally confined to one side of the mid rib. Occasionally a leaf is blanched over the whole of one half while the other is of the usual deep lustrous green. The ordinary plants of the species are remarkably free from any fungous parasite, but with regret the same can not be said of the variegated form. Here the portion lacking in the green substance (chlorophyll) is quite frequently attacked by an anthracnose which causes the pure and beautiful white to disappear, and in its place there comes, first, a dirty brown followed soon by the decay and breaking up of the tissue of the leaf. It is not unusual as a result to find the previously blanched stripe through a leaf a long slit, or the half that once was white almost entirely gone, or remaining as shreds while the opposite half of the leaf is in a comparatively healthy condition.

The artist has been fortunate in getting a good picture of a portion of one of these large leaves which was entirely white upon one side but became so badly anthracnosed upon that half as to produce the condition as shown in the accompanying engraving. It goes without further saying that when a leaf loses its life-sustaining green it also yields up that indescribable resistive force that may have enabled it to keep off its fungous enemies. The practical grower of plants must needs consider this weakness upon the part of such blanched or variegated plants and determine whether the gain in beauty which such plants possess is purchased at too great a sacrifice of healthfulness. There is in some localities a popular "craze" for variegated plants and shrubs, and even trees are sought which will produce an effect in the lawn that shocks the good taste of some.

The fungus that so seriously attacks the *aspidistra* as before said is an anthracnose, and it is also interesting to note that it is the same that has proved so destructive to the plantain lilies, particularly the *Funkia undulata* var. *variegata*. Fungi as a rule have their limits and most species grow only upon a few, if more than one host. That the anthracnose in question should thrive upon

the variegated forms of the aspidistra and funkia, while the two genera are widely unlike in appearance, is not strange, for they both belong to the same family.

The reader may recall that the funkia trouble was treated in the AMERICAN FLORIST for July 14, 1892, and that an excellent engraving was presented showing the appearance of the microscopic enemy. The remarks there given concerning the nature and habits of the fungus need not be repeated and a comparison of the two engravings is suggested.

BYRON D. HALSTED.

Rutgers College, Sept. 22, '92.

OBITUARY.

W. J. GORDON, the Cleveland millionaire, who owned the Gordon Rose Houses at Glenville, O., died November 23. He leaves an estate valued at \$12,000,000. By his will Gordon Park, an extensive and beautiful pleasure ground, to which in the past the public has been admitted on stated days, is given to the city of Cleveland under certain conditions. Mr. John Thorpe is one of the executors of the will and in all probability he will take charge of this park at the conclusion of his work in connection with the World's Fair. Mr. Gordon was all his life a great lover of plants and flowers of all kinds, and though sometimes criticised by those in the trade for his venture in commercial rose growing, it is certainly true that he did much toward the advancement of ornamental horticulture in general.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Adverts not admitted under this head.

SITUATED WANTED—By a first-class rose grower; American; single; 18 years experience. Address: ROSE GROWER, American Florist, Chicago.

SITUATION WANTED—By a young German, age 20; 3 years experience, acquainted with all kinds of greenhouse work; can furnish best of references. Please state wages. Address: N. N. P. O. Box 423, Springfield, Ohio.

SITUATION WANTED—By a good practical all round man, commercial or private place; expert mushroom grower, etc. as partner in a good paying establishment; first class references. Address: G. M. care American Florist, Chicago.

SITUATION WANTED—Seedsmen, coming over from England shortly, wishes an engagement. Many years experience in seeds, bulbs and specialties. Highest references. Address: SEEDSMAN, Journal of Horticulture, 11 Fleet St., London, Eng.

SITUATION WANTED—Or partnership, either in store or greenhouse, by a thoroughly practical business florist with large acquaintance and trade. Vicinity of Chicago. Address: WILLIAMS, care Chicago Floral Co., 38 Grand Boulevard, Chicago.

SITUATION WANTED—By a young gardener, German, age 21; 4 years experience, accustomed to all kinds of greenhouse work; would like to have a position, either east or west; can furnish best of references; state wages. Address: EAST or WEST, Lock box 423, Springfield, Ohio.

SITUATION WANTED—As foreman on private place, by practical gardener; experienced in all branches of landscape work, vegetables, greenhouse plants, etc.; age 29; best references. Vicinity of Detroit or Eastern States preferred. Correspondence invited. Address: CHAMBER, care Chicago Floral Co., 38 Grand Boulevard, Chicago.

WANTED—A few stock plants of Genium Souverain Charles Turner, Bogotia A. Millet, Siberiana. Address: PLANTSMAN, American Florist.

WANTED—At once, a single florist, strictly sober and honest; a grower of plants and cut flowers, good designer and decorator in flamm work. No other need apply. Good references. State age, experience and wages. Address: C. CHAMBER, 21 Lake City, Utah.

FOR SALE—Greenhouse, near Chicago, just re-built, 5,000 feet of glass, stocked with snail, carnations and roses, heated by hot water. Address: J. W. care American Florist.

FOR SALE—Florist business, 5 houses, 10,000 square feet of glass, fine stock, good location, good market, best of reason for selling. Address: B. W. SMITH, West Haven, Conn.

ROOTED CUTTINGS.

Carnations.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will do them right both in quality and price.

LIZZIE MCGOWAN now ready, at \$2.00 per 100; \$15.00 per 1000.

CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

Mention American Florist.

FOR SALE OR RENT—At a bargain, an old established florist business near St. Paul. Must be disposed of through serious illness. Address: FLOREST, care American Florist, Chicago.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1893. Address: B. care J. C. Vaughan, Box 688, Chicago, Ill.

FOR SALE CHEAP—Three greenhouses, one 100x20, one 100x15 and one 30x15, well stocked, large house has a first class rose bed. These houses are in city of Pittsfield, Mass., 5 miles from famous summer resort of Lenox. Reason for selling old age. Address: Lock Box 1236, Pittsfield, Mass.

WANTED.

2,000 CHINESE MATRIMONY VINES, 1 year, strong.

State number can furnish and size.

L. L. MAY & CO.,

Florists and Seedsmen, St. Paul, Minn.

Wanted, 5,000 ECHVEERIA SECUNDA GLAUCA, young or old plants. Address: CULLEN & ELLIOTT, Rittersville, Pa., stating price and size of plants, etc., immediately.

VICTORIA DAISY WANTED.

Any one having above to sell, please address

E. D. JAMES, Florist,

22nd Ward, Pittsburg, Pa.

HELD AT PRIVATE SALE.

Property of forty-five acres, elegant improvements and conveniently located, a well paying business established in Plants, Bulbs, Seeds, Cuttings; five greenhouses 100x25 feet, heated by hot water, and everything in the best of condition. For particulars write

JOHN J. GHEEN, West Chester, Chester Co., Pa

FOR SALE.

A N OLD ESTABLISHED FLORIST BUSINESS at Dorchester, Mass., comprising 20,000 feet of land centrally located, on which are:

- 1 House 70x18 filled with Carnations.
- 1 House 70x16 filled with Roses.
- 1 House 70x11 filled with Violets.
- 1 House 70x10 filled with Violets.
- 1 Sash Pit 70x7 filled with Violets.
- 1 Dwelling House, seven rooms.

Plants in good condition and houses in good repair. Price, \$5,000.

Address

N. F. MCCARTHY & CO.,

1 Music Hall Place, BOSTON, MASS.

Mention American Florist.

ARECA LUTESCENS SPECIMENS

\$5.00 TO \$40.00 EACH.

John Burton,

CHESTNUT HILL, PHILADELPHIA, PA.

Miscellaneous.

GERANIUMS—A very choice assortment transplanted plants with labels, \$2.50 per 100; without labels, \$2.00 per 100.

ROOTED CUTTINGS—Named, \$2 per 100; \$15 per 1000; without names, \$1.50 per 100; \$12.50 per 1000.

COLEUS—\$1.00 per 100; \$7.50 per 1000.

HELIOTROPE—\$1.50 per 100.

SALVIA—A. V. Vining, \$2.00 per 100.

W. Bedman, \$5.00 per 100.

SEND FOR A LIST.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. FENNOCK,

The Pines, Kennett Square, Chester Co., Pa.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready January 4, 1893.

R. T. LOMBARD, Wayland, Mass.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. FIDELITY Lined quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

J. L. DILLON, Wholesale Florist

BLOOMSBURG, PA.

WRITE FOR CIRCULARS.

Nursery Manager WANTED.

We offer a Nursery Foreman or Manager a permanent position at a liberal salary; provided he possess executive ability, a thorough knowledge of the business, is steady and temperate.

State experience, salary required and date can take position. Address

BOX 37, Little Silver, N. J.

Do you WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.



WE ARE NOW BOOKING ORDERS FOR



AMERICAN BELLE.

PER HUNDRED,

\$60.00.

25 at hundred rates.



PER THOUSAND,

\$400.00.

250 at thousand rates.

JOHN BURTON, Chestnut Hill, Philadelphia, Pa.



A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gale** at \$8.00.

Some Specialties for 1893 will be

Aurora New Jersey
Thos. Cartledge Nancy Hanks
Pearl Dornier
Golden Triumph Mrs. Hitt
Grace Darling Ben Hur
Puritan Daybreak
Emily Pierson White Wings
Orange Blossom Edwin Lonsdale
Angelus American Flag.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

CARNATIONS

Strong, healthy, field grown plants.

PURITAN—The best white. Early, productive and healthy. 1st size, \$15 per 100; \$125 per 1000. 2nd size, \$10.00 per 100; \$80.00 per 1000.

Hybrid Perpetual Roses.

Strong, field grown plants, \$10.00 per 100.

WOOD BROTHERS,
Fishkill, N. Y.

ROOTED CUTTINGS of CARNATIONS

Here we are again; but in a better shape than ever before. In addition to our extensive range of green-houses, we have added two new houses, each 50 feet long, devoted to the propagation of carnations only, and hope to be able to fill all orders of any size, from December to June. We have the best of the new varieties recently introduced; also the best standard sorts not superseded by the choicest of the recent acquisitions. Our stock is in perfect health, and more flourishing than ever. Trade price lists will be mailed to all applicants after December 1st.

Correspondence solicited. Watch our ad.

JOSEPH RENARD, Unionville, Chester Co., Pa.

CUT FLOWERS OF CARNATIONS

We are now ready to receive standing orders for the winter.

CHAS. T. STARR, Avondale, Chester Co., Pa.

When writing to any of the advertisers on this page please mention the **AMERICAN FLORIST**.

GARDENING

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language *that they can understand*. Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO., Monon Building, Chicago.**

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSE ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.
Mention American Florist.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,
TERRE HAUTE, IND.

ROSES. Our **TRADE DIRECTORY** contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

100,000 ROSES NOW READY.

We always have a select stock of young Roses in all leading sorts, including all the best novelties.

Our stock will be extra fine, grown with greatest care, and are bound to give satisfaction to any grower of experience.

SEND YOUR LISTS TO BE PRICED.

Our climate and soil enable us to produce Plants and Flowers equal to the best in the country, and our new houses have all new and original improvements.

TEA ROSES 2-inch pots, our selection \$30.00 Per 1000
HYBRID PERPETUALS, 2-inch pots, our selection 40.00

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

New Wholesale Catalogue ready Jan. 1st, 1893.

KAISERIN AUGUSTA VICTORIA

THE COMING WHITE ROSE.

From 4-inch pots \$ 5.00 per doz.
" 3-inch pots 35.00 per 100
" 2½-in. pots 25.00 per 100

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS \$30.00 per 1000
HYBRIDS 40.00 per 1000

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock. Trade list on application.

Jacob Schulz,

LOUISVILLE KY.
Mention American Florist.

ALWAYS mention the **AMERICAN FLORIST** when writing to advertisers.

Cleveland,

There was considerable demand for cut flowers on Thanksgiving day, in fact there were not enough carnations and roses to go around. This is unusual, for, as a general rule, there is not much demand for flowers on this particular holiday.

Mrs. Wilmers held a very successful chrysanthemum show at her Jennings avenue greenhouses from November 15 to 19 inclusive.

J. M. Gasser had his annual "Opening" or chrysanthemum show at his store November 16 to 18. There were some extremely fine blooms of Lincoln, Ivory and Arthur displayed. The roses shown were particularly fine.

Wamelink Bros., the new firm on Euclid avenue, are now under full headway. They have a fine store in a good location and are meeting with success. Their head man is Mr. Charles Wagner, for the past eight years with J. M. Gasser.

Good violets and carnations have been scarce all fall. Daybreak takes the lead in popular favor in carnations and brings one-third more in price than any other variety. One grower has such faith in it that he has one very large house entirely of that kind. It has all the good points of a carnation, long stiff stems, never bursts, a large flower, a color that is always in demand and the best of keepers. L. F. D.

FT. WAYNE, IND.—At a very late day the florists of Ft. Wayne decided to hold a chrysanthemum show. Although hurriedly arranged it was a creditable show all things considered. The hall was beautifully decorated with wild smilax, Florida moss, evergreen wreathing and hunting, and the exhibits were up to the average. The show was well attended and was a success financially and otherwise. It resulted in the formation of a society, to be known as the Northern Indiana Florists' Club, with the object of holding an annual chrysanthemum show in Ft. Wayne. The club meets monthly, with the following officers for the first year: President, B. L. Auger; vice-president, G. W. Doswell; secretary, F. J. Knecht; treasurer, Mrs. W. J. Vesey.

MILLBROOK, N. Y.—A meeting of gardeners and others interested in horticulture was held here on Thursday evening, the 17th inst, and the Millbrook Horticultural Society organized with Dr. J. O. Pingry president; I. L. Powell vice-president; C. Kennedy secretary, and Wm. Smith treasurer. It is their intention to hold exhibitions the coming season, giving a number of prizes for amateur classes, and thus create a deeper interest in flowers among the residents.

DENVER, COL.—The chrysanthemum show here has proved extremely popular and successful. First prize for the finest collection went to the Denver Florist and Fruit Co.; first for best display of cut flowers to Mrs. Gallup, and also first for finest single plant.

PUEBLO, COL.—Victor Johnson gave a chrysanthemum show at his greenhouses on West Abriendo avenue week before last, making a large display of both chrysanthemums and roses.

GRAND FORKS, N. D.—A chrysanthemum show was held here during the week ending November 19, and although the attendance was not large much interest in flowers was aroused.

T. J. CORBREY & CO.

Wholesale and Commission Florists,

45 Lake Street, CHICAGO.

(IN CHICAGO CUT FLOWER EXCHANGE.)

We are prepared to receive Consignments and dispose of them to the best possible advantage.

Asparagus Plumosus Nanus.

CUT STRINGS, 8 to 10 feet long, 50 cents each.
12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

THE Chicago Cut Flower EXCHANGE.

Incorporated. Capital Stock, \$10,000.

No. 45 LAKE STREET,

Is now open for business. A number of prominent growers have secured space in the Exchange, and a choice and varied stock can be found there at all times to select from.

There are also Commission men in the Exchange who will receive consignments and fill orders promptly.

The Exchange has a limited amount of Table space to rent. Also choice advertising spaces on the walls at a reasonable rate per year. This is an excellent method of advertising; reaching the buyers of Chicago and vicinity, as well as visitors from a distance. For terms, etc., address

THE MANAGER OF
THE CHICAGO CUT FLOWER EXCHANGE,
No. 45 Lake Street, Chicago.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,

1122 PINE STREET,
St. Louis, Mo.

A complete line of Wire Designs.

Mention American Florist.

WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

Mention American Florist.

Cut Flowers.
ROSES, CARNATIONS AND
CHRYSANTHEMUMS.

We can fill orders for above on short notice: Adams, American, United States and Wells Fargo Express Co.'s. Give us a trial order.

GEO. A. KUHLE, Pekin, Ill.

CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

NILES CENTER FLORAL CO.,
Wholesale Dealers in
Cut Flowers
AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,

In Chicago Cut Flower Exchange.

45 Lake St., CHICAGO.

We are now located at our new quarters in Chicago Cut Flower Exchange, and are prepared to fill orders in very best manner. Give us a trial order and see how we please you.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c., on request.

Wisconsin Flower Exchange,
WHOLESALE
Cut Flowers and Florists' Supplies
131 Mason St., MILWAUKEE, WIS.
CHOICE STOCK, CAREFULLY PACKED,
AND ON TIME. Send for Price List.

SMITH, The Florist,
GROWER OF
Fine Roses and other Cut Flowers
WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

SAMUEL S. PENNOCK,
Wholesale Florist
38 S. 16th Street, Philadelphia, Pa.

YOUNG BROS.

20 W. 24th St.,
NEW YORK CITY.

THE LARGEST WHOLESALE CUT FLOWER HOUSE IN THE WORLD.

We offer a grand stock of choice **ORCHID BLOOMS**, including **Cattleyas** and **Cypripediums** in unprecedented variety.

An unlimited supply of **Violets**, **Lily of the Valley**, long-stemmed **Carnations**, **Hyacinths**, **Narcissus**, **Smilax**, **Asparagus plumosus** and **Ferns**.

HOLIDAY ORDERS BOOKED NOW.

HEADQUARTERS FOR AMERICAN BEAUTY, METEOR, AND ALL OTHER POPULAR ROSES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of **FLORISTS' SUPPLIES.**

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.
Mention American Florist.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

M. OLSON,—*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
Wholesale and Commission
FLORISTS,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

@Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 29.	
Roses, Gontiers, Niphotos.....	2.00@ 3.00
" Waterville, Cusin, Perles, Sunset.....	2.00@ 3.00
" Mermis, Brides.....	2.00@ 3.00
" La France.....	2.00@ 3.00
" Meteor.....	2.00@ 3.00
" Beauty.....	25.00@ 25.00
Carnations.....	1.00@ 1.50
Violets.....	2.00@ 3.00
Valley.....	5.00@ 6.00
Roman hyacinths.....	2.00@ 3.00
Smilax.....	20.00
Asparagus.....	50.00
Adiantums.....	1.00

BOSTON, Nov. 29.	
Roses, Niphotos, Gontier.....	4.00
" Bride, Mermis, La France.....	5.00@ 8.00
" Perle, Sunset, Wootton.....	5.00@ 8.00
" Meteor.....	10.00@ 12.00
" Beauty.....	25.00@ 30.00
Carnations.....	2.00
Valley.....	5.00
Hyacinths.....	4.00
Violets.....	1.00@ 1.50
Mignonette.....	1.20@ 5.00
Callus.....	12.00@ 15.00
Bouvardia, single.....	1.50
" double.....	2.00
Stevia, pinks.....	4.00
Chrysanthemum, blooms.....	10.00@ 15.00
" bunches.....	2.00@ 3.00
Smilax.....	12.50
Adiantum.....	1.00

PHILADELPHIA, Nov. 29.	
Roses, Beauties.....	30.00@ 35.00
" La France, Albany.....	5.00@ 7.00
" Mermis, Bride, Meteor, Bennett.....	5.00
" Cusin, Waterville.....	4.00
" Wootton, Perle, Niphotos, Gontier.....	4.00
Valley.....	6.00
Carnations.....	1.50
Violets.....	1.00
Romans.....	4.00@ 5.00
Narcissus.....	15.00@ 20.00
Cypripediums.....	8.00@ 10.00
Chrysanthemums.....	1.00
Adiantums.....	15.00@ 20.00
Smilax.....	15.00@ 22.00

CHICAGO, Nov. 29.	
Roses, Gontier.....	3.00@ 4.00
" Perle, Niphotos.....	3.00@ 4.00
" Mermis, La France, Bride, Albany.....	4.00@ 7.00
" Wootton, Bennett, Meteor.....	4.00@ 7.00
" Beauty.....	15.00@ 25.00
Carnations, short.....	1.00@ 1.25
" fancy.....	1.50@ 2.50
Violets.....	2.00@ 3.00
Chrysanthemums, common.....	1.50@ 5.00
" fancy.....	5.00@ 25.00
Romans.....	4.00@ 5.00
Violets.....	2.00@ 3.00
Adiantum.....	1.00@ 1.25
Smilax.....	15.00@ 22.00

Peck & Sutherland,
Successors to **WM. J. STEWART,**
Cut Flowers and Florists' Supplies
— **WHOLESALE.** —
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of **Fancies** and **Carnations** always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
— **WHOLESALE** —
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30th St., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.
Mention American Florist.

THEO. ROEHRs,
— **WHOLESALE** —
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale and Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
Price list on application.

When writing to any of the advertisers
on this page please mention the AMERICAN
FLORIST.

Re Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

IN THE advertisement of the F. R. Pier-son Co. on last page of our chrysanthemum number the types made them offer mixed crocus at \$3 a hundred and \$20 a thousand, when it should have read 30 cents a hundred and \$2 a thousand. Mr. Pier-son writes, "We would like to sell them at the price printed but fear it wouldn't work."

THE *National Advertiser* says competition promises to be very hot in seed advertising the coming season, and it is reported that a number of new concerns will launch out in this direction for the first time.

MR. J. C. VAUGHAN is in the East on a business trip.

Special Offer.

ROMAN HYACINTHS		Per 100
White	.....	\$1 40
Blue	.....	1.60
Pink	.....	1.92

DUTCH HYACINTHS		Per 1,000
Single mixed, extra fine	.....	2.40
Double	.....	2.50

TULIPS		Per 1,000
Single mixed, finest quality	.....	.95
Double	.....	.90

CROCUS		Per 1,000
All colors, mixed, extra fine	.....	1.85

FRESH MUSHROOM SPAWN		Per 100 lbs.
.....	.....	\$7.50.
Have you had our Bulb List?		
H. C. FAUST & CO.,		
64 & 66 N. Front St., PHILADELPHIA, PA.		

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f.o.b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendaal and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

P. D. Box 311B. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

SEEDS! PLANTS! BULBS!

Everything pertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

GARDINER'S BULBS.

Many rare and beautiful varieties suitable for winter flowers may now be secured at a greatly reduced rate, as we must make room for spring stocks. Everything we offer is guaranteed sound and of first-class quality.

~~~~~CLEARING SALE.~~~~~

Since our last week's announcement surplus stocks have moved off at a lively rate. We have a few items yet that we could not find room for in the last offering and offer them below. Bargains every one. Don't miss them.



	Per 100	Per 1000
Asperanthus umbellatus	\$10.00
Anemone, single blue	1.00
" " white (Bride)	1.00
" " mixed50
" Fulgens (scarlet)	10.00
" " seedling	1.50
" double blue	1.00
" " white	1.00
" " crimson and white	1.00
" " scarlet	1.50
" " mixed75
" Beauty of Carnes, mixed	1.50

	Per 100	Per 1000
Amaryllis Zephyranthes rosen	20.00
" " Nerine surculosa	9.00
" " Vallota purpurea	22.00
Arim Draeculcus	8.00
" " Ilanum	6.00
" " sanctum (Black Callia)	25.00
Asilbe compacta multiflora (new)	3.00
" " aurea poliflora	3.00
Besera elegans	3.00
Erantbes hycanils	6.00
Helleborus niger major strong	1.25
clumps	15.00
Hyacinths, Roman, blue	2.00
" " yellow	2.25
" " Dutch Roman, blue	25.00
" " single	25.00
" " red, mixed	25.00
" " pale blue, mixed	25.00
Isira vidiflora	3.00
Isiolirion tartaricum	8.00
Leccium aestivum	1.00
Lily of the Valley Pips, XX Ber-	9.00
lins, 2 year	17.00
Lily of the Valley clumps, Berlin	40.00
Lilium longiflorum, 4 1/2 to 5 inch	25.00
" " 4 1/2 inch	1.75
Narcissus pallidus praecox75
" " Paper White50
" " Poeticus50
" " plenus55
" " double yellow	1.00
" " Roman50
Paeonies, herbaceous, fine roots (4 colors)	15.00
mailed	4.00
Ranunculus Persian mixed	4.00
" " French	4.00
" " Turkish	4.00
Ranunculus acronitifolius alba	10.00
" " fl. pl.55
Sella aurea (Siberian)	20.00
Tulips, Pottebakker yellow	20.00
Yellow Prince	20.00
" " Cottage Maid	2.00
" " Rose Griselin	20.00
" " Crimson King	7.00
" " Kaiser's Krown	20.00
" " La Candeur, double white	8.00
" " Single Early Mixed	7.00
" " " Extra Mixed	9.00
" " double mixed (tall)	7.00
" " " early	9.00
Chinese Sacred Narcissus	45.00
\$1.50 per basket (4 baskets in bundle).		

LILY OF THE VALLEY.

We beg to announce the arrival in splendid condition of the first consignment of Gardiner's XX Berlin Valley, which is considered by critical growers to be the **very best on the market**. After filling our contract orders we will have a few cases left (containing 2,500 pips each), which we offer as long as they last at \$22.50 per case. Less than case lots \$9.00 per 1,000. From same shipment a choice lot of **Ranunculus acronitifolius fl. pl.** (The true "Bachelor's Buttons.") These have been specially grown for forcing, and if potted at once will bloom early the next winter—nice stuff—\$10.00 per 100. **Dielytra Spectabilis**, large roots, well set, \$5.50 per 100.

Address all orders and correspondence to **No. 21 N. 13th St., Philadelphia, Pa.**

Trade List of Choice Flower
Seeds free on application.

JOHN GARDINER & CO.

OSKAR KNOPFF & CO.,

SEED GROWERS,

Erfurt, = Germany,

FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

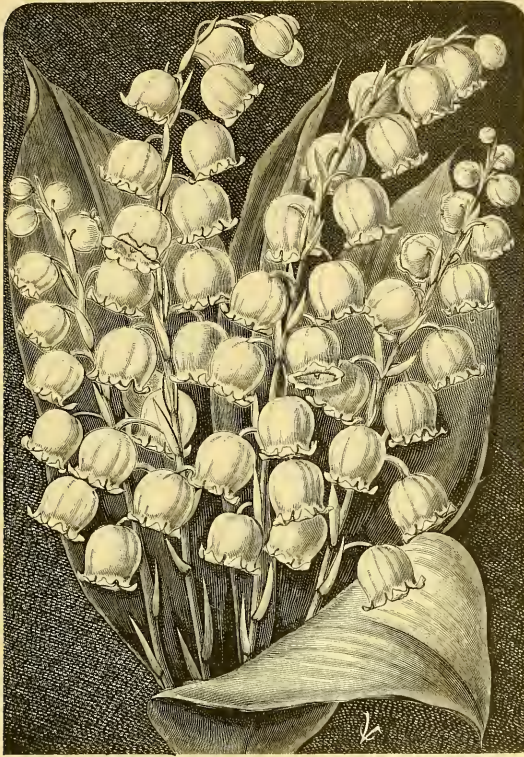
DANISH CAULIFLOWER SEED

Gives in fact the very best results.
Extra Early DWARF ERFURT,
and Earliest DWARF SNOWBALL,
the most profitable two sorts for forcing, true to
name and first quality, own home grown seed.
For prices, samples and further information, apply to
CARL FRISENETTE, Seed Grower,
4 Svanholmvej, COPENHAGEN, V.

G. J. MOFFATT, Manufacturer of PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Mention American Florist.



We have just received from best German growers nearly **ONE MILLION** strictly No. 1 Forcing Pips, which we offer at the following close rates f. o. b. Chicago net:

PER 1000	\$ 8.25
PER CASE, 2000	15.00
PER CASE, 2500	18 50

Lots of 8,000 to 10,000, per 1000, \$7.25.

SPIRAEA, Per 100 Clumps	5.00
TUBEROSES Excelsior Pearl, 1000	9.50

Also Valley Clumps, all best Cannas, etc.

J. C. VAUGHAN,

NEW YORK: CHICAGO:

12 Barclay Street.

146 W. Washington St.



BLACK CALLA



Until **DECEMBER 15** we will dispose of a fine lot of **BLACK CALLAS**, home grown stock, ready to grow now, at **\$18 00 PER 100** or **\$3 00 PER 12**. After that date we put them and charge a higher price.

GLADIOLUS NANCEIANUS. The largest flowers known; 10 named varieties, 50c. each. Price elsewhere is \$1.00. Send for List of Novelties in Bulbs.

A. BLANC & CO., Philadelphia.

LILIUM HARRISII. Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

LAST CALL

For this year on **SURPLUS BULBS.** Wishing to make room for the Spring trade, we offer our surpluses of bulbs at the following low prices as long as unsold. They are all sound and perfect, and will do well for late planting:

	Per 100	Per 1000
Roman hyacinths, white, 11 to 14 centimeters.	\$14.00	20.00
" " " " 12 to 15 "	20.00	8.00
" " " " yellow, selected bulbs.	25.00	45.00
Narcissus, Double Roman, " " " "	7.00	10.00
" " " " Poeticus " " " "	3.50	15.00
" " " " ornatus, forces well, flowers double the size of the ordinary Poeticus	11.00	8.00
Freesia Refracta Alba, first size	7.25	12.00
Calla Lily, large dry bulbs, . . . per 100	\$6.50.	8.00
Iris, English, large bulbs . . .	6.00	22.00
Jonquils, Campenelle, good for forcing . . .	7.00	22.00
Dutch Roman Hyacinths, assorted colors . . .	18.00	10.00
Lilium Longiflorum bulbs, 4 to 6 in., per 100	\$4.	7.50
Milla Biflora . . .		20.00
Gladiolus, "The Bride" . . .		8.00
Spiraea Japonica, strong clumps . . .		45.00
Lily of the Valley, strong Berlin pips . . .		10.00
Tulips, Single Named, assorted colors . . .		15.00
" " " " Mixed . . .		8.00
" " " " Double Named, assorted colors . . .		12.00
Hyacinths, Double Mixed . . .		8.00
" " " " Single Mixed . . .		22.00
Anemone Pulchra . . .		10.00
Narcissus, Alba Plena Odorata . . .		7.50

Jobbers and Dealers in seeds would do well to send us a list of their wants now for estimate. We are prepared to quote prices on the new crop of Beans, Peas, Vegetable, Flower, Grass and other seeds in quantity.

PITCHER & MANDA, Short Hills, N. J.

Mention American Florist.

OUR GERMAN LILY OF THE VALLEY PIPS

Are unexcelled; if properly forced they cannot be surpassed in general average results. They are furnished by us to the largest Cut Flower growers all over the U. S. Order a sample box now if you never have tried them before.

THE PRICE IS \$9.00 the 1000 pips (Nine Dollars).
\$20.00 (Twenty Dollars) the original box of 2,500 pips.
Off this we allow 10 per cent. for prompt cash.

FRESH STOCK NOW READY FOR DELIVERY.

AUGUST RÖLKER & SONS, New York,

. . . 136 West 24th Street, or P. O. Station E.

Buffalo.

The excitement caused by the chrysanthemum show has subsided and we have all settled down to business. Our club met on Tuesday last and the secretary informed us we should come out about even, which was very gratifying and better than expected.

Business has been very fair, a large number of weddings, receptions, etc. have kept all hands busy and flowers have been none too plentiful. Violets we can not get enough of. There seems an extraordinary demand for American Beauty roses this fall, and many more could be sold than come into town. The supply of other roses is sufficient. Carnations are none too plentiful and as "chrysanth" are about going out for a rest the demand for long stem carnations will greatly increase. There is a much increased use of Asparagus plumosa this year and some of our local powers should plant a house or two. In house decorations it will soon entirely supersede the good old smilax.

Those florists who thought that the chrysanthemum was waning in favor must be now convinced that it is some other year and not this year. There was easily four times as many good "mums" grown in this vicinity as ever before and double as many fine flowers sent in from outside, and yet they have all gone and many more could and will be used. They have been used for all purposes and occasions, carried by brides, bunches, for mantels, masses of plants to fill fireplaces, beautiful white bunches used at funerals and every other place where flowers are desired. This is no flitting fancy, the popularity of the chrysanthemum, and as long as flowers are sold the "mum" will hold its place with any of them. If they could be had the entire season like roses and carnations it would be quite different. Orchids have been used largely at several decorations lately and now they are being asked for beyond the supply.

Our wholesale commission man, Mr. D. B. Long, has just returned from a trip among the eastern growers. He finds so many of the retailers depending on him for their supply of good things that he needs larger shipments daily. G. S.

CONSTANT READER.—The most reliable instructions regarding the forcing of hybrid roses will be found in the back numbers of the *FLORIST*. We do not know of any book devoted wholly to this subject.

A TYPOGRAPHICAL error in the advertisement of Aug. Rolker & Son on page 385, of our issue of Nov. 17 made them offer inscriptions of "head" letters when it should have read "bead" letters.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society on Sept. 16-19, we took with our Begonias **Fourteen First Prizes**, including the Gold Medal and also the Ashcroft Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

25,000 Pansy Plants

The finest strain in the country. It can't be beaten. \$5.00 per 1,000; 75¢ per 100. Now is your time to order. Address,

GEO. B. WHITEHEAD,

Lock Box 116, GREEN'S FARMS, CONN.

HYDRANGEA PANICULATA GRANDIFLORA

The most profitable and satisfactory plant for florists to buy and sell.

THE VERY BEST ORNAMENTAL SHRUB.

It will make you money and give the best of satisfaction to your customers. Millions can be sold to planters if it is brought properly to their attention.

Largest Stock in America.

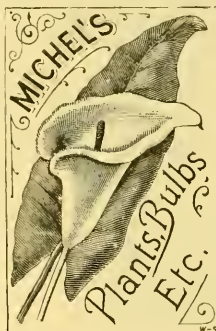
SPLENDID PLANTS. CHEAPER AND BETTER THAN IMPORTED.

SEE PRICES BELOW:

ONE YEAR, 12x15 inches, fine.....	\$5.00 per 100;	\$10.00 per 1000
TWO YEARS, 2x2½ feet, fine.....	6.00 "	50.00 "
TWO YEARS, extra selected, 3x3½ feet, strong.....	7.00 "	60.00 "
THREE YEARS, twice transplanted, 3 feet, strong, nicely branched..	8.00 "	70.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance. Address

THE DINGEE & CONARD CO., West Grove, Pa.



Mention American Florist.

Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Double Petunias.

Twenty extra choice named sorts. Twelve of these were illustrated in the *AMERICAN FLORIST* No. 226. These are the result of 12 years' careful breeding. Price, \$10.00 per 100. I also offer a limited quantity of Seed of this Double Strain at 50 cents per 1000 seeds.

G. A. McTAVISH,
VICTORIA, B. C., CANADA.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100, \$6.00, by mail.

BRAUER & RICHTER,

... MCCONNELSVILLE, O.

Genista Racemosa.

Fine, bushy plants in 8-inch pots, for sale cheap for want of room. These plants will make splendid Easter plants.

LEMUEL BALL,

WISSINOMING, PHILADELPHIA.

Cyclamen Persicum Giganteum

5-inch pots \$12.00 per 100
CHRYSANTHEMUMS, Stock Plants.
Standard market sorts \$ 5.00 per 100
Newer sorts 10.00 per 100
Send for list of wants and let me make you prices.
Address **J. G. BURROW,**
FISHKILL, N. Y.

Please mention the *AMERICAN FLORIST* every time you write any of the advertisers on this page.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

"CHRY-S-COLA"

Rooted Geraniums.

BRUANT,

LA FAVORITE,

S. A. NUTT,

HETERANTHE.

Large stock of these varieties ready to ship: \$1.50 per 100; \$12.50 per 1000. Cash with order. For other varieties send for Chry-S-Cola price list.

S. B. FIELD, Roselle, N. J.

300,000 PANSIES—EXTRA.

THE JENNINGS STRAIN of Large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are fine Winter bloomers and for spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 50 cents per 100.

Any size in flowering plants, \$5.00 per 1000; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't write and ask if I can fill an order as it is only a waste of time. Seed of this strain \$1.00 per trade packet of 2000 seeds; \$6.00 per ounce.

E. B. JENNINGS,

CARLTON, VIOLET & PANSY GROWER,
Lock Box 254, SOUTHPORT, CONN.

VERBENAS. MAMMOTH.

Unexcelled sorts, strong, clean and healthy, \$1.00 per 100, \$25.00 per 1,000. Rooted Cuttings, \$10.00 per 1,000.

CANANS—French—Select sorts, \$5.00 per 100.

CYCLAMEN—3-inch, in bud, \$10.00 per 100.

ROSES—11 P's, \$1.50 per 100, Climbers, \$4.00 per 100. Perle, Niphelos, Mermat, Albany, La France and bedding teas, \$5.00 per 100.

JOSEPH DEINI, Jacksonville, Ill.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 100 pages. Send \$2.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Houses with Short Span to the South.

I should like to make a few remarks in regard to the article in the Am. Florist, page 283, on forcing houses with short span to the south.

The writer of that article holds that houses put up in that way are warmer during the winter months because the rays of the sun strike the south roof in a right angle, and that for the same reason the sun's rays will be intensified. Now scientists tell us, and also prove it, that just in this particular case no such a thing takes place, that is to say, the rays of the sun will, by striking the glass in an angle of 90°, that is a right angle, pass through it unchanged. That is to say, they will have no more effect inside of the house than outside, and if it were not for the reason that glass is a poor conductor of heat, the sun's rays alone would not be able to raise the temperature of the house materially above the out of door temperature.

We shall consider a house now, put up after the old fashion, with the long span facing south. Here the sun strikes the glass in a smaller than a right angle, as a rule I suppose in an angle of about 45°. Science again tells us that the rays of the sun, when striking glass in any angle smaller than 90°, will be refracted; they will change their course on passing through the glass, and in the case of our greenhouse they will strike the level surface of the benches at a bigger angle than they would do if the glass were not interfering. Everybody is aware that the rays of the sun have the more effect the more perpendicularly they come down; and that the refracted rays come down more perpendicular on the benches than the unrefracted is evident. Consequently the sun must have more effect on a house with the long span facing south than on one put up the other way, without taking into consideration that the former will receive twice the amount of sun rays for having twice as large a surface as the latter. L. W.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora Magnolia glauca, Kalmia latifolia X-ruby lam, collecte 1 Fine collection Hardy Perennials and Hardy Flowering Shrubs.
Wholesale Trade List FREE. Send samples of what you want.

ROGERS NURSERIES, Moorestown, N. J.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS.

Offices and Salesrooms:

427-429 Sansome St.

501-503 Clay St.

SAN FRANCISCO, CAL.

Exporters, Importers and Growers of

Trees, Plants, Seeds, Bulbs.

WHOLESALE FLORISTS.

GREENHOUSES.

NURSERIES

SEED FARMS and

TRIAL GROUNDS

Menlo Park, Cal.

DWARF CALLA LILY "The Gem". A novelty of more than ordinary merit, seldom exceeding a height of 10 inches, and producing from a bulb no larger than an ordinary crocus, three or four perfect blooms. The great advantage in saving space must suggest to the intelligent florist that "THE GEM" is one of the things he cannot afford to be without. STOCK LIMITED. Prices, free by mail or express, per dozen, \$2.50; per 100, \$18.00.

Cosmos grandiflora, pure white, per ounce, 40 cents; per pound, \$6.00.

Cosmos grandiflora, mixed, per ounce, 50 cents; per pound, \$5.00.

Hollyhock, in separate colors, cactus, cream purple, red, rose and white, each per oz. 50c; per lb. \$7.50

" choice mixed, per ounce, 60 cents; per pound, \$6.00.

Smilax, per ounce, 30 cents; per pound, \$3.00.

PALE SEEDS. Of these we can supply every desirable variety. Consignments constantly arriving. If interested, send for special list.

YOUNG BROS., WHOLESALE FLORISTS, 20 W. 24th Street, New York.

Palms, Ferns and other choice Decorative Plants in any variety or size. Also a full line of Seeds, Bulbs and general horticultural requisites, including Tobacco Stems in any quantity.

We have the exclusive sale of Park & McCrowe's unequalled strain of Tuberous Begonias, which for uniformity of habit and richness of color cannot be excelled.

We are also booking orders for the beautiful new pink rose—the novelty of the season—MADAME CAROLINE TESTOUT, and the new white rose KAISERIN AUGUSTA VICTORIA.

GARDENING

▲ ▲ ▲ To all Florists. ▲ ▲ ▲

Do you know that this new paper, printed twice a month, will answer seven days in a week all technical questions, asked by dozens of your customers in regard to the treatment of their plants, which, to answer each verbally, would require many valuable half hours. Why not tell them "Here is a paper at \$1.00 a year, telling you more in each issue than I can do in an hour." You save time, make a commission on the subscription and please your customer. Think of it and act as our agent.

GARDENING COMPANY, Monon Building, Chicago.

Rooted Cuttings.

1 per 100

Carnations, New Scarlet, Emily

Pierson..... \$3 00

Leading varieties..... 1 25

Violets, Russian and Neapolitan.

Coleus and Alternantheras in var.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

A. N. PIERSON, Cromwell, Conn

RUDOLPH HANTZSCH.

Wholesale Manufacturer of

WHEAT • SHEAVES.

Importer and Manufacturer of

FANCY BASKETS and FLORISTS' SUPPLIES.

Full line of Metallic Wreaths, Crosses,

Anchors, Etc.

S W. Cor. 7th St. and I high Ave., Philadelphia Pa
Mention American Florist.

PETUNIA SEED.

An extra line collection of large flowering Double and Single fringed varieties, mixed; choicest colors, not grown and hand fertilized; grown specially for florists; no other strain of Petunias to be had. Order early. Trade Pkt., 30 cts.; 2 Pkts., 50 cts.

JOHN F. RIPP, Shiremanstown, Pa.

STOCK PLANTS, "MUMS."

Cheap if Taken at Once.

All good cut flower varieties, viz.: Mrs. Humphrey, L. Canning, Moonlight, Ml. of Snow, Blanche Niede, La Triumphant, M. Boyer, Presl Arthur, Parian, Fink Diana, White Diana, Gorgeous, Citron Mrs. Price Gulingfordii, at 8c each or set of 15 for \$1.00. Orders booked for rooted cuttings of above February delivery at 2c. Cash with order.
Rooted cuttings of Standard Carnations. Send for prices.

PAUL F. LAU & CO, River Grove, Ill.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Metal Memorial Designs,

WREATHS, CROSSES, HEARTS, STARS, ANCHORS, LYRES, BOUQUETS, ETC., of green or white Metal Foliage and assorted Porcelain Flowers.



"BRIGITTA", size about 16 inches across; in green or white foliage, retails readily for \$5; wholesale price \$2 25 net. Address

TRUE TO NATURE
ARTISTIC
CHASTE
DURABLE
PROFITABLE

Better than Immortelle
Designs for
**CEMETERY
DECORATIONS**

Bringing the purchaser readily one hundred per cent. profit.

Buy from Headquarters.

We carry the largest assortment and the most tasteful styles brought to this country; at prices ranging from 50 cents each to \$5.00 net and more. Illustrated list free to the trade on application.

WELL ASSORTED COLLECTIONS put up for \$10, \$15, \$20, \$25, net, and more.

STRONG EASELS for above, nicely bronzed, furnished at 25, 35 and 50 cts each net.

INSCRIPTIONS of bead letters *Rest, At Rest, Father, Mother, Baby*, furnished at 3c the letter net.

DECEMBER ORDERS are allowed an Extra Holiday Discount of 10 per cent.

ORDER EARLY.

AUGUST RÖLKER & SONS, NEW YORK,

136 & 138 W. 24TH STREET, NEAR 6TH AVE., OR P. O. STATION E.

Pines, * Wild Smilax AND Palmettos

For XMAS. Order early to insure careful selection and prompt delivery, by

A. E. OELSCHIG,
SAVANNAH, GA.

GERMAN FARMERS, GERMAN GARDENERS, AND AMATEURS

Are considered very desirable customers by all Seedsmen, Florists and Nurserymen. You can reach almost **Thirty Thousand** of them in all parts of the United States by advertising in

HEROLD DES CLAUBENS
Catholic German Weekly Journal.

Published at 309 Convent St., St. Louis, Mo., since 1854. Do not allow your advertising agent to substitute another paper as being "just as good," etc., but insist on going in the

HEROLD DES CLAUBENS
LORD & THOMAS, 45 Randolph Street, CHICAGO.
C. MEYER & CO., 124 Nassau Street, NEW YORK.
Sole agents for foreign advertising.

Mention American Florist.



WHITE DOVES FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Wink e St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.

CHRISTMAS WHAT I WILL DO. GREEN.

I will send, all express charges prepaid, to any part of the United States, the following goods at prices given:

1 Barrel Wild Smilax for.....	\$3 25
1 Bale of 3 Barrels Wild Smilax.....	8 00
1 Dozen Chamaerops Palm Crowns, 4 to 5 feet.....	5 00
4 Sabal Palm Crowns, 5 feet.....	5 00
1 Dozen Long Needle Pines.....	5 00
100 Chamaerops Palm Leaves.....	4 00
100 Sabal Palm Leaves.....	5 00
1 Barrel Magnolia Leaves.....	3 25
1 Barrel Grey Moss.....	3 25
1 Barrel Holly, plenty berries.....	3 25
1 Case Holly, " ".....	6 00

If you want a Mixed Case, I will send small quantities of each at same price, but orders must not be for less than \$3.25.

Cash must accompany order. Positively no goods C. O. D.

SEND FOR ILLUSTRATED CATALOGUE.

**CALDWELL, THE WOODSMAN,
EVERGREEN, ALA.**

XMAS GREENS. BOUQUET GREEN, HOLLY,

LAUREL WREATHING, WREATH AND FESTOONING OF ALL KINDS.

Long Needle Pines, Palm Leaves and Crowns. Send for Price List, and order early.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

A Novel Exhibition.

The preservation of flowers for long distance transit is a matter frequently brought before the trade, and any new ideas on the subject are of interest. A recent Californian consignment displayed in Chicago, for the purpose of showing a new preservative system, was extremely interesting and appears promising of good commercial results. These flowers were preserved by some secret process by which the discoverer, Mr. I. Allegretti, claims to entirely arrest the life of the flower, paralyzing it, as it were, so that it will remain for an indefinite period in exactly the same condition as it was when cut. The flowers seen in Chicago had been gathered for eleven days, and had been exposed in the display room for the greater part of two days. They consisted of roses in seven varieties, La France, Meteor, Watteville, Waban, Mermet, Bon Silene and Perle; carnations, chrysanthemums, sweet peas and violets, both white and purple. It was extraordinary, when the length of time since they were cut was considered, to see the fresh condition of the blooms. The violets retained their fragrance, as well as their fresh appearance, and the same may be said of the sweet peas. The roses were in good condition also.

What of this discovery or invention commercially? It is rather a difficult matter for one to offer an opinion; there are so many possibilities either way. The flowers were there, and they were certainly preserved with startling freshness. It is the intention of the projectors to confine themselves to specialties; they realize fully that they cannot compete with our roses or carnations, but judge that they can supply violets, sweet peas or callas at times when they are scarce or out of the market here. A specially prepared car is to be built immediately, and a large consignment is to be sent to Chicago about Christmas. The gentlemen interested in this enterprise are I. Allegretti and J. H. Hunt. Fruit is to be shipped under the same circumstances as flowers, delicious strawberries, raspberries, figs and grapes, forming a part of the Chicago display.

OUR . . . HALF-TONE ENGRAVINGS

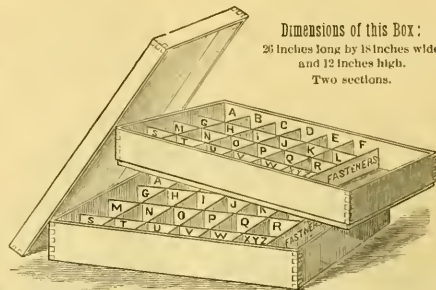
ARE MADE BY

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the **AMERICAN FLORIST**.



Dimensions of this Box :
25 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, Address 13 Green St.,
Treas. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.



Fancy.

Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

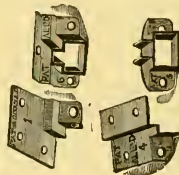
SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

ESTABLISHED

FLORISTS

WIRE

DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.



Pat. 1882, '85, '86,
'88, '90, '91.

**FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,**
And for any and every purpose for which a hose can be applied.

Sizes, ½-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mfrs and Owners of all the **Sphincter Grip Armored Hose Patents,** 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

THE GREAT ANTIPIEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
201 Amity Street, FLUSHING, Queens Co., N. Y.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

Metal Designs and Flowers.



No. 194.

FRESH CAPE FLOWERS,
IMMORTELLS,
AND
Holiday Goods in
great variety.

NOVELTIES

Constantly arriving.

SEND FOR CATALOGUE.



No. 99.

H. BAYERSDORFER & CO.,

Headquarters for Florists' Supplies,
56 N. 4th St., Philadelphia, Pa.

World's Fair.

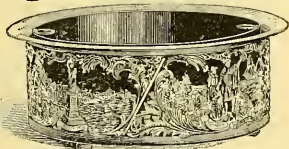
We have obtained a quantity of the handsome colored lithographs of the

Horticultural Building

of the World's Fair, at a special low rate, and will mail a copy, prepaid, in a tube, to any address on receipt of the price, now reduced to **50 cents.**

American Florist Co.,
322 Dearborn Street, CHICAGO.

August Rolker & Sons

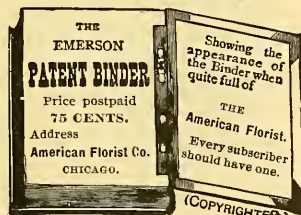


COLUMBIAN JARDINIERE. Bronze, finest, 10 in. diameter, \$5.00; 12 in. diameter, \$2.50 net.
136 & 138 West 24th St., NEW YORK.
Mention American Florist.

STOTT'S DOUBLE SPRAYER



Read Advertisement in Next Week's Issue.
Mention American Florist.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERES

we have ever placed before the trade at this season. **ONE HUNDRED** different shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise, Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.

Sold by Seedsmen.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.
Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.
Mention American Florist.

YOU CAN SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.
The best thing of the kind ever invented, for
either high or low greenhouses. Send for description
and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.



GREENHOUSE HEATING

AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N.Y.

Send for Catalogue.

Fumigating.

A few numbers back I read a contribution on fumigating by those who had no means of using steam. Florists so situated should use tobacco dust or fine sweepings, making a cone of about four quarts, using one or two cones for each 1,000 feet of glass. Make a hollow in the top of the cone, like a miniature crater of a volcano, pour in about a tablespoonful of kerosene, touch a lighted match and the work is done. In this way tobacco will smoulder until all is burned. It will never blaze and rarely do mischief, except to very soft improperly grown foliage. FRANK BEEFINGTON, Fall River, Mass.

Patents Recently Granted.

Lawn mower attachment, W. J. O. Astrup Cleveland, Ohio; Hose-reel, R. D. Wright, Independence, Mo.; Pruning implement, W. P. Hatch, Chicago; Seeding machine, G. W. Kirkpatrick & J. B. Ralston, Macedon, N. Y.; Trellis, C. G. Derby, Laona, N. Y.; Fruit transporting package, J. Y. Mott, N. Y. City; Fruit clipping and holding shears, J. S. Dinkel, Longwood, Fla.; Pruning knife, C. C. Brooks, Cape Elizabeth, Me.; Lawn sprinkler, Ette, St. Louis, Mo.; Apple parer and corer, C. A. Benton, Aurelius, Mich.; Pea huller or sheller, J. H. Empson, Longmont, Col.; Plant setting tool, A. A. Haawes, Wallingford, Conn.; Seed planter, H. Fine, Concordia, Mo.; Seeding machine, J. M. Fender, Liberty, Ind.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL WIND ENGINE
GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no lifting or pulling of covers and practically no attention, yet is more durable than other Wind Motors that require all this and more unique in design. The GEM TOWER combines beauty, strength, durability, simplicity in the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence and who build the **Halladay Standard Pumping and Geared Wind Mills, the Standard Ventilators and E. S. Sulfid Wheel Wind Mills, Pumps, Tanks, Horse Fly Tools, &c.** No other company offers equal inducements. Send for Catalogue and Prices. **U. S. WIND ENGINE & PUMP CO., CATAVIA III U. S. A.**



HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand. PROMPT ATTENTION. Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress, from bottom gutter up is my specialty.

Lyman Felheim, ERIE, PA.

CYPRESS GREENHOUSE MATERIAL



JOHN C. MONINGER, 297 Hawthorne Ave., CHICAGO, ILL.

Mention American Florist.

HOT BED AND VENTILATING SASH

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.

NORTH CAMBRIDGE, MASS.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa. Randolph Ave. & Union St., Jersey City, N. J.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

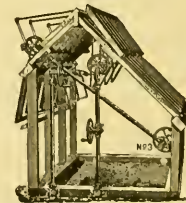
THE STANDARD Ventilating Machines

Received best awards at

BUFFALO, N. Y., BOSTON, MASS., TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD, Youngstown, O.



GREEN-HOUSE HEATING.

Meyers & Co. 1173 S. Ninth St., PHILADELPHIA.

Send for catalogue and price list.



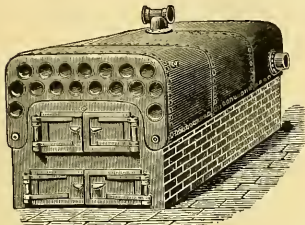
Always mention the American Florist when writing to advertisers.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

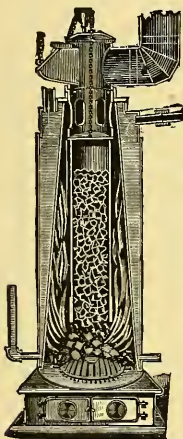
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

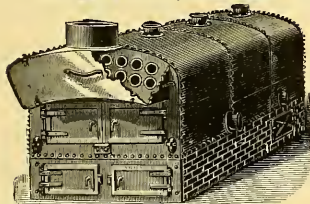
Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS.

CHICAGO.**THE WILKS HEATER,**
FOR HEATING**GREENHOUSES, STORES, DWELLINGS, ETC.**Manufactured **THE S. WILKS MFG CO.** 123 S. Clinton St.,
CHICAGO, ILL.
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**

41 to 55 Erie St., CHICAGO.

Boilers made of the best of material, shell, firebox
sheets and heads of steel, water space all around
front, side and back. Write for informationDo you WANT an alphabetical list of the
chrysanthemums in commerce in America,
with class and a brief accurate description
of each one, and synonyms noted? You
will find such a list in our new trade
directory and reference book.

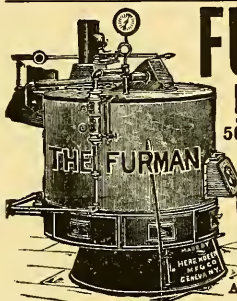
Mention American Florist.

THE "LOGKLAND"
Sash Bars * * ***ARE ALWAYS SATISFACTORY.**This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.**GUTTER MATERIAL, RIDGES, SASH, ETC.**The finest **CLEAR CYPRESS** used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

**FURMAN BOILERS****Economical — Substantial — Safe.**

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Stannicness, Durability
and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and
Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.**
Send for new 150-page book giving full particulars and a great
deal of valuable information on modern Heating and Ventilation,
with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEN MFG. CO.,** 26 Vine Street, GENEVA, N. Y.**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the Improved
RIDER
OR
ERICSSON HOT-AIR PUMPING ENGINECatalogue with full partic. lars, sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.**ERICSSON****D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASSfor ROSE HOUSES, CONSERVATORIES, Etc., Etc.
Our Glass received the Highest Award at the Boston Convention of the S. A. F.**FIRST-CLASS CERTIFICATE OF MERIT.****PERFECT DRAINAGE****BENCH TILE**

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

Used by all the leading
Growers and Horticultural
Builders.

Index to Advertisers.

Abel C C & Co.	433	Long Dan'l B.	428
Adv Rates, etc.	428	Lonsdale Edwin.	427
Andorra Nurseries.	428	McBride Alex.	434
Bail Lommed.	432	McCartly N F & Co.	429
Baile F A	433	McFarland J H.	432
Bay State Htg Co.	437	McFarland J H Co.	435
Bayersdorfer H & Co.	437	McFarish G A.	435
Baylis Henry W.	429	Manz J & Co.	436
Becker H H & Co.	431	Marsheuta & Co.	435
Blanc A & Co.	431	May L L & Co.	426
Bonsall Jos E & Son.	428	Meyer John C & Co.	435
Boston Letter Co.	433	Michel Plant & Bulb Co.	429
Brague L B.	436	Milling Bros.	429
Branger & Richter.	432	Moffatt G J.	439
Burns & Raynor.	427	Molly Ch.	435
Burrow J G.	432	Moninger Joe C.	428
Burton John.	426	Moon Samuel I.	434
Caldwell Geo W.	433	Moore Frank L.	427
Carman R W.	424	Myers & Co.	438
Chicago Cat Flower Ex.	429	Nairz & Neuner.	427
Clitty H E.	425	National Hot Water	429
Cook John.	425	Heater Co.	440
Couretz T A & Co.	428	Niles Centre Florist.	428
Cullen A Elliott.	426	Oleischig A C.	435
Devine's Baller Wks.	429	Olson M.	429
De Lannier Iron Wks.	430	Ouwkerk P.	435
Dillon J L.	426	Peck & Coleman Co.	429
Dinoge & Conrad Co.	432	Pennock C L.	429
Dreer H A.	432	Pennock Sam'l S.	428
Eckhardt Theo.	431	Peterson A N.	434
Elliott W H.	428	Petersen P R Co.	431
Ellison Wm.	428	Pitche & Maada.	431
Frost H G & Co.	430	Randall A L.	429
Felheim Lyman.	428	Renani Joseph.	427
Feld S B.	432	Roberts D H.	429
Frisenette Carl.	431	Rochs Thos.	434
Gardening Co. Trist.	434	Rogers Nurseries.	434
Gardner J & Co.	430	Rolker A & Sons.	433
Gheen John J.	429	Rupp John F.	434
Gibson J C.	429	Russell S J.	435
Gonzalez & Co.	434	Sander & Co.	435
Hall Ass'n.	440	Scholz Jacob.	427
Hanneman Beul.	433	Seclay John A.	437
Hantzsch Rudolph.	434	Schire P & Sons.	435
Hart James.	429	Schurman W F.	429
Hart Michael A.	433	Sherwood Hall Nur.	434
Hartford H E.	433	Steinrich Wadley.	435
Hedl Jos.	433	Slipfe Doppel & Co.	428
Hereden Mig Co.	429	situations, wants.	426
Herald des Glaubens.	435	Smith C A Florist Co.	428
Herr Albert M.	429	Spooner Wm H.	427
Hew & A H & Co.	428	Starr Chas T.	427
Hill E G & Co.	426	Steffens N.	427
Hiward E.	428	Stott Garden Imp Co.	427
Hitchings & Co.	440	Sunderbruch H L.	428
Hooker H M Co.	428	Swayne Edw.	427
Horn Edw C.	429	Tricker Wm.	433
Holmebosch Bros.	430	Troxell & Forest.	433
Hunt E H.	429	T's Wind Engine & Pump Co.	428
Hunt M A.	427	Vanhan J C.	431
Hunter & Purdy.	429	Waterbury Rubber Co.	436
Irvine John Co.	423	Weathered Thos W.	440
James E D.	426	Weber & Don.	440
Jeffords J E & Co.	427	Welch Bros.	429
Jennings E B.	432	Whitlitt Pot Co.	428
Joosten C H.	429	Whithead Geo B.	432
Kennett Bros.	429	Wicht W P.	439
Kaupf Oscar & Co.	430	Wilks S M Co.	429
Koffman E.	433	Wicostin Flower Ex.	429
Kroeschell Bros.	430	Wood Bros.	427
Kuehn C A.	428	Young J M & Co.	427
Kuhl Geo A.	428	Young Bros.	429
La Roche & Stahl.	429	Zocher & Co.	432
Lau Paul F & Co.	434		
Lockland Lumber Co.	430		
Lombard R T.	436		

WAREEN, O.—Geo. W. Gaskill had an exhibition of chrysanthemums at his greenhouses that drew large crowds. He opened his flower store at 27 Broadway street, November 15. Business has been good since cold weather set in.

BERLIN, MASS.—C. M. Sawyer is building a greenhouse 100x20 for carnations, heating with a Furman boiler and 2-inch pipe.

NEW BEDFORD, CONN.—H. V. Lawrence, of Falmouth, has opened a retail flower store here in the Headley & Reed building.

BRIDGEPORT, CONN.—Mr. C. H. Fleming of West End Floral Co., has just returned from a vacation to Denver, Col.

HAGERSTOWN, MD.—Wm. Bester has built two houses 60x22 for roses and carnations.

Most Desirable.

Greatest Economizer.

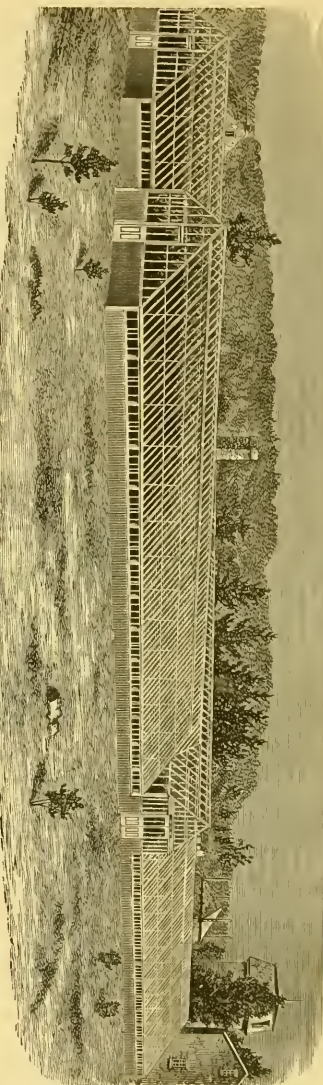
THOS. W. WEATHERED'S SONS
Hot-Water Boilers,

244 CANAL STREET,

NEW YORK.

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLASS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. — IRON BENCH FRAMES FOR SLATE OR WOOD TILES. —
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street.



HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.

THE SPENCE HEATER
HOT WATER
FOR HEATING
BY HOT WATER CIRCULATION.
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, See'y F. H. A., Saddle River, N. J.

Please mention the American Florist every time you write any of the advertisers on this page

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, DECEMBER 8, 1892.

No. 236

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY
THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terra Haula, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.
The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Carnations—Seasonable hints	441
—Growing new varieties	441
—Chester County Carnation Society	442
—Carnation diseases	442
The gloxinia	442
Flowering plants for exhibition	442
View at Indianapolis exhibition (illus)	443
Short span to the south	443
Fuchsia amarantha (with illus)	444
Philadelphia	444
Boston	444
Chicago	445
Baltimore	445
New York	446
Obituary—James C. Duffey	446
News notes	446
Chrysanthemum prize cup (illus)	446
Chrysanthemum souvenir	446
Toronto	448
Another special number	450
Catalogues received	450
The seed trade	452
World's Fair notes	454
San Francisco	456
Worcester, Mass.	458

OUR TRADE DIRECTORY.

We shall issue about February 1, 1893, a supplementary sheet embodying all the corrections in addresses and additions to the list of those engaged in the florist, nursery or seed trade, of which we can obtain information. At the present rate of progress the number of additions and changes in such a list in the course of 12 months is very large. Also in the compiling of such a work as the directory some errors are unavoidable. Such as are noted we shall correct, and we would respectfully ask our subscribers to aid us by calling our attention to such inaccuracies or omissions as may have come to their notice.

The supplementary sheet will be of the same size and form as the leaves of the directory and will be distributed gratuitously to all who have purchased copies of the 1892 edition.



Seasonable Hints.

While the ideal flowering shoot of the carnation is as we described it in our last communication, there will at times appear shoots not inclined to form buds but bearing pips from top to bottom in great profusion. This will appear but occasionally on some varieties while with other sorts they will be the rule unless guarded against by proper selection. The old Snowdon is a kind particularly liable to run to blind wood (for such it may be termed) and when propagated from pips growing on such shoots produces plants strong, vigorous and healthy, but flowerless. When increased from the flower-bearing stems a more profuse bloomer could not be found. We have observed the same conditions to prevail in the variety Robt. Craig or Garfield, and we believe all kinds are more or less addicted to the practice of throwing up blind shoots. Hence we say the only safe plan to preserve prolific stock is to propagate from blooming shoots only. We would say in passing that the propagation of plants by cuttings does not so much reproduce the characteristics of the whole plant as those of the shoot from which the cutting is taken. And this fact points out a way not only to avoid non-blooming plants, but also to improve our stock and steer clear of disease.

For the reasons above given we do not deem it advisable to set apart a portion of stock for propagating purposes only. A plant not allowed to bloom will throw up very many more cuttings than one allowed to flower in the natural way. Of course if our object is simply to increase our stock, turning out an immense quantity of rooted cuttings, regardless of quality, that is the proper plan to pursue. But having regard to the future capabilities of our plants the practice should be condemned as at least impolitic. New varieties are too often launched into the world in this manner from which practice it takes them years to recover. Consequently new comers are frequently condemned whereas the fault lies largely in the manner of propagation.

Avondale, Pa. W. R. SHELMIER.

Growing New Varieties.

It is about fifteen years since I became interested in producing new varieties of carnations from seed. During that time I have read with eagerness everything I

could lay hold of which has been written on the subject, and on hybridizing and cross-breeding of plants in general. In these years I have tried many experiments and grown thousands of seedling plants.

To me there is a fascination and pleasure in watching the results which vary so much in different years, the causes of which are as yet beyond my ability to explain; so I intend to continue my work in this direction, hoping for a more intelligent understanding of the very interesting subject.

Long ago I read the law that the form and habit of plant must resemble the pistillate; and the color of the flower, the staminate parent. If this is true, it is of general application to all plants. The carnation may be the exception that proves the law, for it breaks every restraint of rules, and blooms to suit itself.

I have had four fine sorts come from one seed pod; again have grown seven hundred plants without a single one worth retaining the second year. The successful seed pod, from a self fertilized Degraw, produced a white, two variegated and a deep crimson. Where did the *Crimson* come from? I had none of that color in bloom at that time. When I began to grow seedlings, Degraw was the best white we had. Being often tinged with pink, it was to be expected that some of its seedlings would be marked with that color. The source of the crimson can only be found in its ancestry which I have no means of finding.

The carnation is said to have been originally a hardy biennial having single flowers. Such plants grow the first year and bloom the next. The growth is tufty, like a bunch of grass. In a batch of seedlings from our ever blooming sorts, there is in some years a very interesting reappearance of the hardy type in differing degrees, some giving no sign of a flower at the close of the season, while others show flower stems in all stages of growth. I said in some years, for while this reversion is very noticeable one year, perhaps the next it is not shown at all, or in only one or two plants.

The same thing is observable in regard to double flowers. One year almost all will be double, encouraging the belief that a new class is being developed and the double habit fixed; the next, as it was with the seven hundred alluded to, a very large per cent. will be single or not bloom at all, which means a reversion to the original type. Such experience is very discouraging and prevents most growers of carnations from attempting to grow seedlings.

One gentleman told me he grew five thousand one year, and not one of them was worth saving; he added decidedly, "I will never do that again." I thought he was right.

It is said inventors seldom get rich. The users of the invention reap the profits.

Yet there are many inventors. The same may be true of the originator of a new plant. The prizes which the few obtain are powerful stimulants to effort, but aside from all pecuniary reward, there are those by nature fitted for observation and research who have a perception of nature's methods akin to that of the inventor.

A florist once said to me: "It was a smart thing to do to grow so good a pink as Grace Wilder," a remark which was worth more than money to the one to whom it applied, if he ever heard it. Such men are always at it, which is the first condition of success.

SEWALL FISHER.

Chester County Carnation Society.

The regular meeting was held in the society's room, Saturday, December 3, with a full attendance. Several visitors were present, including Pres't Lonsdale, of the American Carnation Society.

The committee on gold medal reported several designs having been inspected but no selection yet made. The offer of the society is a gold medal at the Pittsburgh meeting of the American Carnation Society, for not less than six blooms of any variety never offered for sale.

The topic of winter treatment of carnations was discussed. Mr. Lonsdale thought the proper preparation of the soil was the most important factor. Mr. Phillips thought injury was often done by excessive watering.

Pres't Ladley spoke of the valuable information to be derived from the exceedingly varied experiences expressed at our meetings. He had seen bad results from over-watering.

Secretary Shelmire spoke of the reason for such varied opinions being the great diversity in soil, aspect of houses, etc.

The meeting directed the secretary to communicate with the state chemist on analysis of carnation plants and soils for producing the best growth.

The exhibits of flowers were the best ever shown. Edward Swayne exhibited a fine bunch of Sweet Briar, a seedling not yet introduced, a delicate shade of pink; also Thos. Cartledge and his handsome white seedlings. L. Thompson showed a good pink, a cross of Chester Pride and Grace Wilder.

Mr. Shelmire showed a bunch of 50 or more seedlings having Caesar as a pod parent, taken indiscriminately from a bunch, all were double and marketable flowers and well illustrated the recent statement in the FLORIST that the progeny of Caesar invariably produce double flowers. In explanation Mr. Shelmire spoke of the value of certain varieties to frequently reproduce their own color, notably Field of Gold to produce yellow flowers.

C. J. Pennock showed a pink seedling, cross of Wm. Swayne and Aurora, very full with erect stiff stems and fragrant.

Notice was given that Prof. Halsted, of Rutgers College, New Brunswick, N. J., was preparing a paper on "Carnation Diseases" for the American Carnation Society and solicited specimens of diseased carnation plants.

C.

Carnation Diseases.

Dr. Halsted, of the New Jersey Experiment Station, is to present a paper upon carnation diseases before the American Carnation Society at its next meeting at Pittsburgh, Pa., and desires that all those who are troubled with rust or blight of any kind in carnations will com-

municate the fact to him, and send specimens of the diseased plants, that he may make as full a report as possible upon the subject he is requested to treat. Address Prof. Byron D. Halsted, Experiment Station, New Brunswick, N. J.

The Gloxinia.

After the rush and sale of the many spring flowering plants is over there is felt to be a dearth of flowering plants for the retail trade. Of the very few which can be called good summer pot plants preeminently in the front rank to list this want is the gloxinia. But a few years ago not one dozen gloxinias were sold in this city in a whole summer. Last year several thousand were sold at a good price in our stores and greenhouses during the months of July and August. And every year we see an increase in the number sold, and for the best of reasons. They have little opposition at that time as a pretty plant for the house, and they invariably do well, developing their beautiful flowers just as well in a sitting room as they do in a greenhouse.

The gloxinia is a native of tropical America, which tells us at once that a warm temperature at all times is what it wants. They can be raised in large quantities from seed, which should be sown about February 1st in a temperature of 70 degrees, or can be propagated by leaf cuttings, which should be inserted soon after the plants have done flowering and while the leaves are ripening. Bulbs will form at the base of these cuttings, and will make flowering bulbs the following spring. The latter method is seldom used, except to perpetuate a very valuable variety. For those who grow only a few hundreds for their retail trade I would say let specialists do the raising of the bulbs, and you will find it cheaper and better to buy one year old bulbs from some of our large wholesale firms at a very low figure. I am sure for the average florist this is cheaper than bothering with the seedlings at a time of year when your hands are very full.

If the bulbs are received before the middle of February, store them away in dry earth or sand till the above date, which is early enough to start them to have them flower by end of June, and you do not need them before. I pot the bulbs in 4-inch pots, the top of the bulb even with surface of soil. If the soil is moderately moist, which it should be, no watering is needed till the young leaves appear, after which, and while they are growing freely, they should have plenty of water. When in flower, if allowed to wilt from want of water the flowers that are out will be ruined. I start them in a house at a temperature of 60° at night; when they have made some good roots, and the leaves have spread out beyond the edge of the 4-inch pots, they should be shifted into their flowering pots, which with me is a 6-inch. They will now grow very fast. Some growers recommend a daily syringing with tepid water. It is safer to keep water at all times from the upper surface of the leaves. A moistening of the benches and syringing among the pots is sufficient; a drop of cold water lying on their leaves several hours will certainly rot them and greatly disfigure the leaf, but on a bright, warm morning it would soon evaporate and no harm be done. In watering, as little of the foliage should be wet as possible. Space on the benches is usually not very scarce in midsummer months, and it pays well to stand your gloxinia on an inver-

ted 6-inch pot with plenty of room. You can syringe better, water better, and it gives the plants more air among them. They should at all times have a moderate shading, and when the flowers begin to open they will last much longer if removed to a cooler house with more shade. I have never had them troubled with thrip, spider or aphids, but they are sometimes attacked by a rust (similar to the verbenas or heliotropes rust) which I believe is caused by too much water and too dense a shade in the early stage of their growth. The soil I use for them with best results is one-half light loam, one-fourth leaf mould and one-fourth well rotted cow manure, and add one peck of pounded-up charcoal to a wheelbarrow load of the compost. I don't mean by leaf mould that sort of stuff that is got from swamps or rotten timber from the woods, which often goes under the name of leaf mould. I mean well rotted leaves that have been piled up several years with occasional turnings. I use plenty of drainage, and by that ambiguous term I mean two inches of broken charcoal covered with a piece of green moss. Plants unsold or diseased should be consigned to the dump pile; it will pay.

WM. SCOTT.

Buffalo.

Flowering Plants Suitable for Exhibition.

The comparative scarcity of specimen flowering plants at the various exhibitions has frequently been remarked, for outside of the few florist's flowers that everyone grows (though not all equally well) and a limited number of orchids, but little is seen in flower.

This fact may have something to do with the limited popularity of some exhibitions, for while a handsome group of foliage plants always excites the admiration of the general public to a greater or less extent, yet it is found that a judicious combination or contrast of flowers and foliage will produce a still more satisfactory result, this effect having been well shown at some of the chrysanthemum shows where the glare of color was subdued and relieved by groups of palms and other foliage.

And it should also be taken into consideration that unless flowering plants are thus introduced to the public it is uphill work for the florists to create a demand for such stock, for glowing catalogue descriptions have no such effect as a well-flowered specimen in a public hall.

An extensive list of plants adapted for this purpose could readily be made up but the few briefly noted below will doubtless suggest others to those interested, the plants mentioned being such as may be secured without much difficulty.

At the head of the list should be placed *Bougainvillea glabra*, one of the most showy of stove plants and also an easy subject to manage, one essential to success being a proper season of rest during the winter.

It is readily propagated from cuttings, requires no other compost than good loam, and produces an abundance of bright pink bracts through the summer, the bracts keeping in good condition for quite a length of time.

The ixoras also deserve a prominent place, though being essentially warm house plants may curtail their usefulness in a degree. Under proper conditions however the ixoras make wonderfully effective specimens, their large trusses of bonvardia-like blooms being very showy and produced in considerable quantity. For growing on young plants of this genus a



VIEW AT THE INDIANAPOLIS CHRYSANTHEMUM SHOW.

strong moist heat is needed and a rather light, open soil, but in order to have plenty of flowers the following season a period of comparative rest should be allowed during the winter, by giving less water and a temperature of about sixty degrees.

Among the many fine species and varieties of these plants the following may be specially recommended: *Ixora coccinea*, flowers bright red; *I. princeps*, orange red; *I. Colei*, pure white; and *I. salicifolia*, the latter having large trusses of orange scarlet flowers.

Posoqueria longiflora is a strong growing shrub that is less common than its merits deserve, having sweet-scented white flowers of tubular form, the tube being very long, frequently five or six inches, these flowers being produced in terminal corymbs, and are both odd and pretty. The leaves are oval, dark green and of leathery texture and the plant will thrive in a temperature of sixty degrees.

The *dipladenias* should not be forgotten, being among the handsomest of stove climbers when well-grown, but requiring some little attention to secure a good result, a light soil, well-drained and not rammed very hard in potting being points in culture that are worthy of note. It will also be found good practice to allow the young shoots to run up cords attached to the roof of the house until they begin to show bloom, when they should be carefully taken down and trained on a trellis.

Among the finest varieties of this lovely

genus are *D. amabilis*, deep pink flowers; *D. Brearleyana*, opening pink but changing to crimson; and *D. splendens*, light pink, the flowers of all being large and shaped like those of an *allamanda*.

A good pan or tub of *Eucharis grandiflora* also makes a specimen worth exhibiting, and a hard one to beat too, especially such specimens as were exhibited in New York some sixteen or seventeen years ago, these having about sixty open flowers and perhaps three times that number of buds, and being grown in twenty-four inch tubs.

Gloriosa superba is another attractive stove climber that is well suited for our purpose, being a free grower and profuse flowering. The plant in question is bulbous rooted and can be stored away in much the same manner as a *caladium* during the winter, and started into growth in the spring or early summer.

The flowers of *G. superba* are orange red in color, and remind one somewhat of small tiger lilies, except that their petals are even more reflexed than are those of the latter. The leaves also are peculiar in having quite a long tendril extending from their tips.

Clerodendron splendens speciosissima is the unwieldy name of still another fine climber, producing large trusses of deep crimson flowers, and thriving under similar treatment to that given to the well known *C. Balfourianum*. Some of the improved varieties of *Clivia miniata* are also fit subjects for the present pur-

pose, giving large spikes of showy flowers without being very exacting in cultural needs.

Several of the greenhouse *rhododendrons* should also be included, quite an extended range of color being found among these plants now, and some of the varieties having the additional merit of flowering almost the whole year through.

Meyenia erecta and *Lasiandra macrantha* will supply fine purple coloring to the collection providing they do not have to be transported far, but the flowers of these two handsome plants drop so easily they cannot be depended on to travel.

W. H. TAPLIN.

Short Span to the South.

I fear that your correspondent L. W. (page 434) has not put the facts concerning glass and sun's rays quite as a physicist would put them, and while I am not yet prepared to build a house with the long slope to the north, I should not condemn the plan on the grounds advanced by L. W.

The light of the sun carries with it, as a part of itself, the luminous heat rays which are counted on in part for warming a hot bed and for keeping up the day temperature of a greenhouse. These, like the other light rays, when they fall square upon the glass (A) pass through almost entirely, the only loss being a small amount of reflection directly back along the path on which they came and a varia-

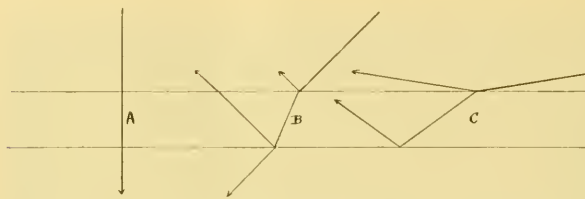


DIAGRAM SHOWING EFFECT UPON THE RAYS OF LIGHT WHEN PASSING THROUGH GLASS AT VARIOUS ANGLES.

ble amount of absorption in the glass, depending on its thickness and character.

But when these rays strike the glass obliquely they are reflected to a much greater extent both from its upper and lower surface (B), and the more obliquely they fall the more fully they are reflected. Refraction plays no part in the direction they take in the house, for though they are refracted or bent from their original course both on entering and leaving the glass unless they strike it vertically, the refraction is equal and in opposite directions as they enter and leave it, provided the glass has parallel sides, so that they emerge with precisely their original direction, only a little displaced laterally, and this displacement is greater the more obliquely they strike the glass, and the thicker this is.

When they become very oblique, however (C.) refraction does affect their transmission through the glass, for if they strike the lower surface of the glass at an angle more than about 39 degrees from the vertical they cannot emerge, but are totally reflected back and either escape above or go on bounding back and forth between the two surfaces of the glass until they are entirely absorbed, according to the obliqueness of their original course. Practically, however, refraction does not affect the amount of luminous heat transmitted by the glass.

The reason that the hot bed or greenhouse does not at once lose these luminous rays is that they are absorbed by the soil etc., and become dark heat. The difference between this and luminous heat in its power to pass through glass must be evident to anyone who has stood outside a blacksmith's window in winter and felt the sharp warmth through the glass from a comparatively small bar of iron at white heat, while a much larger piece cooled to a dull red or black gave out no heat perceptible on the outside though hot enough when the glass did not intervene. This dark heat within the greenhouse or hot bed is held, therefore, by the glass, which offers little obstruction to luminous rays that fall squarely on it, but opposes their passage more and more as they become oblique to its surface, until the angle of total reflection from the inner surface is reached. W. T.

Eucharis Amazonica.

The accompanying illustration is from a photograph sent us by Mr. C. F. Fairfield, Springfield, Mass., and shows a bed of *Eucharis Amazonica* in his greenhouse.

He writes as follows: "There are six clumps in the bed and there were fifty stalks showing flowers before I cut any. I cut a dozen for exhibition at our chrysanthemum show before having the bed photographed. For the benefit of those who get leaves and but few flowers from the *eucharis*, I would state they are

planted in a solid bed and I never water them until they show flower; then I give plenty of water, and weak liquid manure water once a week. As soon as they are done flowering I dry them off as before. I have had two crops a year for three years."

Philadelphia.

Chas. P. Lamb's illness terminated fatally on Sunday morning Nov. 27th. He leaves a wife and four children. Mr. Lamb was cut down in his prime, being only 32 years of age. He intended going into business for himself last spring, but could not find a suitable location and concluded to wait another year. His death is a severe loss to this community.

The supply of cut flowers is about keeping up with the demand, with perhaps the exception of violets, which are scarce, good double ones being particularly in demand.

Roses are up a little, good *Mermets*, *Brides*, *LaFrance* and *Meteors* bringing 5 to 6, smaller roses 3 to 4. *Lonsdale* and *Burton* are both sending in some fine Beauties, which bring from 30 to 35. Mr. Burton's American Belle is sold over the counter for 75 cents and there seems to be an increasing demand for it. It proves to be a great keeper, being a prettier flower the second or third day than it is the first. The *Edna Craig* carnation is also attracting attention and sells at retail for 75 cents a dozen while all other varieties only bring 35 cents. *Angelus* is one of the best new ones, being the largest of the pinks, of a somewhat deeper shade than *Wilder*. *Valley* still holds at 6, paper white and *Romans* 4 to 5.

Palms and *rubbers* have had a good sale this fall. Tree rubbers in small sizes are sold out for awhile, although some very fine large ones are still to be had. Medium sized kentias in from 5 to 8-inch pots are very scarce.

In speaking of insects on palms, *Lemuel Ball* says: "I wish we could find some way to kill the scales; keeping down these pests enters largely into the expense account in growing palms. I believe the small yellow spot on the leaves that is often attributed to scale is caused by the lye in the soap used in cleaning them. They are often damaged by being scraped too hard, leaving a mark that is permanent, spoiling the sale of the plant for a season. There are a number of solutions to be applied with a syringe but many of these are of an oily nature which settles on the leaves and catches the dust and which in turn has to be cleaned off. I would give a good deal for a perfect mixture that could be applied with a syringe."

John Westcott has at last got his place in pretty good shape. It was a wreck when he took hold of it, but by hard work he has now everything in working order. Steam has supplanted hot water and flues, and a new dwelling house approach-

ing completion, which Mr. Westcott will occupy, is all that is needed to make the establishment complete.

At *Henry A. Dreer's* seed store there is a new arrangement for holding and displaying seed packages. The idea is Mr. Dreer's and consists of a number of light wooden boxes eight inches long by two inches wide and deep. These are placed side by side on racks or shelves having a slant of about 30 degrees. The seed packages are placed on end in these boxes, with a weight at the back which slips down owing to the slant of the box and is pressed against the packages, keeping them always to the front. The arrangement has been found to be very convenient and the seeds are shown in a much more attractive manner than when in drawers.

The "Dudes" and "Hayseeds," eight men in each team, had a match at the alleys last Thursday night, the Dudes winning by 43 pins. "Dude" Longinette won for his side putting up a score of 201 pins. Another match growing out of this was rolled Saturday night by three men on a side. This time the "Hayseeds" won, but "Dude" Craig scared them almost out of their boots, by making 218 in the last game, the Hayseeds winning by only 14 pins.

Boston.

The exceedingly stormy weather early in the past week had a most depressing effect upon the cut flower trade, but with the return of sunlight in the latter part business picked up again the prosperous course on which it started in Thanksgiving week, with the prospect that the demand will be steady and satisfactory right along till after the holidays.

The great leaders in the cut flower demand are the American Beauty rose and the violet. There is probably a limit of price beyond which these favorites cannot be sold, but although they are already flying high the prices don't seem to frighten anybody yet, and many more than are produced at present could be readily disposed of.

There are some excellent chrysanthemums still left. One grower is sending to Peck & Sutherland, Cullingfordi, Mrs. Humphreys and W. H. Lincoln in perfect shape, and they of course sell well.

Bulbous stock sells very slowly, Roman hyacinths and paper white narcissus, particularly. Lily of the valley is in rather short supply.

There are some very finely bloomed azalea plants in the florists' windows. These are all from Frank Becker, who has made a remarkably early strike on them. The varieties are mainly *Verveurana* and *Deutsche Perle*, plants of this year's importation, and they wholesale readily at from \$1 to \$4 each.

The town has been alive with supply men and basket men the past week, among whom were Harry Bayersdorfer, who is "afraid of nobody, see," and Winfried Kolkner, whose sweet cajolery and invincible logic would entice an order out of a man of stone.

On Nov. 22, the women had their innings at the Mechanics' Fair. Mrs. A. D. Wood, of West Newton, gave an interesting talk on "Growing Flowers," and Mrs. E. M. Gill spoke on the arrangement of cut flowers, illustrating her subject by arranging a basket of flowers while talking.

Homor Rogers, the Republican candidate for mayor of Boston, is a large grower of carnations, one of the largest in the country, probably. N. F. Mc-



EUCARIS AMAZONICA IN A ROSE HOUSE.

Carthy & Co., handle the carnations, but do not claim that this circumstance will have any special bearing on Mr. Rogers' chances at the polls.

T. H. Flynn is bringing in quantities of very fine Russian violets.

The greenhouses of T. Flanagan at Malden were badly damaged by fire on Saturday, Nov. 26.

Mr. W. A. Manda has been a welcome visitor to the Hub the past week. He showed a bloom of *Vanda Sanderiana* of remarkably fine color and size.

Chicago.

At the present time the flower market here is very dull; the business reported is far less than is usual during early December. There are very few large orders, and little shipment to outside points. There is more call for roses than for any other flower, but although the crop now coming in is not large it is amply sufficient for the demand. If business was good flowers would be scarce.

A limited quantity of the new rose, Mme. Caroline Testout, is coming into the market here. The blooms are fine in color and very large, and they are eagerly bought up on sight, averaging \$8 a hundred. All roses are good now, though a number of growers are off crop. Carnations are extremely scarce; it is almost impossible to find any fancies, and the supply of staple colors is very short. Violets are coming in more freely, but are still scarce, Roman

hyacinths are a drug; for several years the different growers have all been trying to see who could send a crop in the earliest, and this year nearly all seem to have struck just the same time. This alone would tend to lower the price, but in addition the demand is slight, and consequently Romans are bringing very low figures. Paper white narcissus is coming in quite freely, and the experience here is the same as in several of the eastern cities—there is absolutely no sale for it. It is hard to explain just why this should be the case, except on the ground that people care more for narcissus and other bulb stuff towards spring, when it seems most suggestive of the season. Still, paper white narcissus sold well enough here last year at this season.

There is a good supply of callas, which are fairly in demand. Chrysanthemums are gone now. Some of the retailers having a high-class trade say that orchids seem to be gradually acquiring a greater hold on fastidious buyers; the taste in this line is becoming more generally recognized by Chicago buyers.

Mr. John Thorpe is confined to his home by an attack of illness, which, though not alarming in its character, is sufficiently weakening to necessitate rest and care.

It is reported in the daily press that the safe in the office at the greenhouses of Albert Fuchs was forced by burglars

last Friday night and robbed of nearly \$1,000 in money. Seems rather a large sum of cash for a florist to keep on hand at this season of the year.

Baltimore.

Flowers seem to be improving in quality though not quite up to standard yet. Violets come in slowly and are gobbled up by standing orders as soon as received at the Exchange, price 50 cents a hundred. Carnations are very much better in size and quality, they sell at \$1 per 100 for long stems, 50 to 75 cents for short. Roses are still very poor in comparison with northern grown buds, but are coming in more freely than last week, prices the same, viz., 3 cents for Perles, Brides and Gontiers, 4 cents for La France and Bennetts, other sorts are in small quantities and irregular.

Mr. Alex. Scott is sending in lots of eucharis; he seems to understand its requirements, as a bed planted by him in a house on his old place is proving a source of revenue to the present lessee, Mr. Julius Tischinger. The bed is planted under the gutter plate between two connected houses, where it gets a maximum quantity of heat and less light than the beds either side of it.

The club meeting was well attended, as in fact, all meetings seem to be lately. Possibly the members wanted to know the precise amount cleared by the show; if so, they were disappointed, as the com-

mittee had not paid up all bills and premiums, and of course could only give a rough estimate of the net profit.

Quite a diversion from the regular order of business was Mr. Kress's motion that members quit smoking. The constitution provides that smoking shall be allowed at all meetings by a two-thirds vote. Amid much laughter and chaffing a vote was taken and resulted 12 against and 29 for, so the blue haze in the room was thickened diligently.

Attention was called to the fact that no security was offered to exhibitors losing plants at the exhibitions and a motion was offered making the club responsible for all plants until noon of the first working day after the show ended.

The question box as usual gave a host of inquiries, among which were: "Is Mrs. M. J. Thomas 'mum' white or pink?" Mr. Feast answered "white." Pres. Fraser thought all the largest flowers had a tinge of pink. Mr. Ekas said light and culture had great influence.

"Has any one tried Mr. Vogeler's plan of burning coal dust?" Mr. Bauer had heard of a similar plan being used on small places in Europe.

"Has any one used paper flower pots?" Mr. Feast considered them indispensable in decorating. No scratching furniture, no moisture.

"Has the fuchsia Golden Fleece ever been used in America for bedding?" Mr. McNab had seen it used in Europe and described it as very dwarf, 6 to 9 inches, and having foliage of golden yellow changing to red in autumn.

The usual crop of fall and early winter marriages as well as an occasional ball serve to keep things moving and make the cut flower market livelier and livelier weekly. MACK.

New York.

The past week has been one of those most discouraging periods which are all too frequent in the New York cut flower trade. The weather could not have been much worse, and the flower business seemed to take its cue from the weather. Even violets were hard to dispose of. The immediate future of violets is an uncertain quantity. That they can be kept up to present figures throughout the season is scarcely possible. Two dollars and a half and upwards per hundred at wholesale seems an almost prohibitive price.

American Beauty has reached patrician figures also, but is likely to hold its position until hybrids come in.

There has been a terrible slump in Roman hyacinths and paper white narcissus. Growers claim that they have lost money on their early forcing, and when the price realized is considered, there is no inclination to doubt their veracity. A dollar and a half per hundred is not a very encouraging price for Roman hyacinths. They have been sold in quantity much lower than that, however, some lots bringing as low as \$6 per thousand.

Cattleyas and cypripediums with asparagus and Adiantum Farleyense, appear to be the favorite decoration for florists' windows at present. There are also a few ericas, which are unequalled for window ornamentation.

The Jay Gould funeral proved a bonanza for Alex. McConnell. Sunday evening the display of floral designs at his place, for this occasion, was something extraordinary. The work could not have fallen into better hands.

Obituary.

JAMES C. DUFFEY.—The death of J. C. Duffey, in St. Louis, just as he appeared to be well on the road to recovery from an attack of fever which had confined him to his bed for a little over a fortnight, removes from the ranks of horticultural workers a man who seemed destined to do much good and useful work. Mr. Duffey was born in Pennsylvania in August 1860, and graduated from the Michigan Agricultural College in 1887. He received the Master's degree from the same college at its last commencement. His practical training there fitted him well for a position in horticulture which he soon accepted in the Agricultural College at Brookings, South Dakota, from which he came to the Missouri Botanical Garden in the spring of 1890, to take the position of assistant in horticulture, which he held at the time of his death, having refused offer of the horticultural professorship in the South Dakota College last winter.

Mr. Duffey was an honest, hard worker, willing to make haste slowly, but anxious to do everything to the best of his ability. One of the most marked traits of his character was a willingness to frankly admit his ignorance of a subject and to ask for information, and this was coupled with a good natured disposition to help others whenever he could, regardless of any inconvenience to himself. While connected with the Botanical Garden he undertook a considerable amount of experimental work, largely with fungi and insects, on which he has made many interesting observations and the manner in which his work was carried on gave promise of ample and very good results as time went on. He was a genial man whose motto was, to get along smoothly with people, and he was a general favorite among the employees of the garden and had established for himself and the garden the pleasantest of relations with the market gardeners and florists of the city, with the latter of whom, especially, he was popular as the St. Louis correspondent of the AMERICAN FLORIST. He had also come into the rank and file of the State Horticultural Society of Missouri, the members of which appreciated highly his plain direct talks, full of common sense and based on personal knowledge of the topics treated. This, like all of his work, was done for the sake of being helpful to others, and with a remarkable freedom from a desire for appearing prominently before the public. Altogether he was a man whose place is not likely ever to be quite filled by another. W. T.

News Notes.

WAYNESBORO, PA.—John Nitterhouse, the florist, died December 2 of heart disease.

WEST CHESTER, PA.—B. S. Walton is building two new houses for carnation culture.

HASTINGS, MICH.—John Burroughs has started a florist's business here, the first in the town.

LANDSDOWNE, PA.—D. Z. Connor is an accession to the list of florists, having 10,000 feet of glass.

CORNING, IOWA.—The annual session of the Western Iowa Horticultural Society will be held here Dec. 13 to 15.

MINNEAPOLIS.—The Minnesota State Horticultural Society will hold its annual meeting in this city Jan. 10 to 13.

YANKTON, S. D.—The South Dakota Horticultural Society will hold its fifth annual meeting in this city Dec. 13 to 15.

UNION SPRINGS, ALA.—We cut a handsome lot of roses from open ground on Nov. 24, the weather being still balmy up to that date. Camellias were also in bloom.

CINCINNATI.—The supreme court having dissolved the injunction restraining the city from proceeding to erect the flower market on Sixth St., the work of building will now soon begin.

OTTAWA, ILL.—Fred J. King has opened a store at 220 Madison St., this city, and to this address mail for him should in future be sent. Mr. King did not open a store in LaSalle as previously reported.

DENVER, COL.—Mr. A. M. Ballou has started into the florist business at 135 W. Maple St. There is talk of organizing a Florists' Club in this city, and we may soon be able to report the formation of such a club.

WAYNESBORO, PA.—J. F. Nitterhouse has built two houses this summer 100x20, $\frac{3}{4}$ span of latest style in every way. His place is about half a mile from town. Houses for roses and carnations and other plants.

SUMMERVILLE, S. C.—Mr. C. N. Shepard has been experimenting to a considerable extent in tea cultivation. It is interesting to know that his results this year have been highly satisfactory. It must take a year or two longer, however, to decide whether the plant may be remuneratively grown and cured here.

INDEPENDENCE, KANS.—A chrysanthemum show was held here November 9 to 11. There was a good display of plants and the exhibition was a financial success. Wm. H. Barnes rebuilt his greenhouses the past summer and put in a new boiler and will heat by steam. He has a gas well on his place and expects to use gas for fuel.

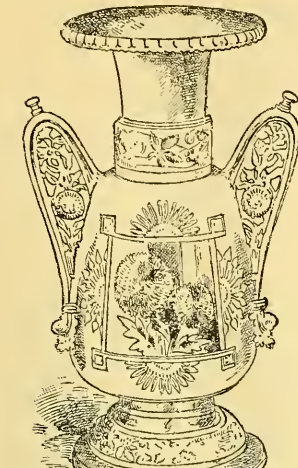
NASHVILLE, TENN.—Trade is dull. Weddings are few in number this season, and if it were not for funeral work the florists might as well close up. But they are evidently preparing for a big haul in the future. Geo. Curry has added three houses 20x130 for general stuff, and Ed. Gilliam has remodeled his palm house and built a rose house 23x83, also a carnation house 12x60.

Chrysanthemum Prize Cup.

The accompanying engraving is of a prize silver cup awarded at the recent exhibition at Syracuse, N. Y. The design seemed such a taking one we thought the sketch might be of interest to managers of exhibitions. The flowers shown in the panel on the side of the cup are a couple of chrysanthemum blooms. The sketch is a rough one and hardly does the subject justice.

CHRYSANTHEMUM SOUVENIR.—The Pennsylvania Hort. Society has a few hundred copies of the chrysanthemum souvenir left on hand and if any of the readers of the FLORIST would like a copy they may receive one by sending a request to the chairman of the Committee on Publication Mr. Geo. C. Watson, 21 North 13th St., Philadelphia, and enclosing a 2 cent stamp for return postage. The souvenir contains much interesting matter.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



CHRYSANTHEMUM PRIZE CUP.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—Thorough knowledge in roses, carnations, palms, orchids, ferns, designing, propagating, landscaping, potter and reliable. References. **FLORIST**, 5 Kimball Court, Natick, Mass.

SITUATION WANTED—By carnation florist, age 28, well up in all kinds of greenhouse work, both plants and out flowers; not afraid of work; reference given. Apply **CARNATION**, care Am. Florist.

SITUATION WANTED—By German gardener, temperate and industrious with long experience in propagating; rose, carnation and out flower grower, wishes to change position. Private place preferred. Address **C. LANGENFELDER**, care Am. Florist.

SITUATION WANTED—By a young German, age 20; 5 years experience, acquainted with all kinds of greenhouse work; can furnish best of references. Please state wages. Address **E. O. Box 423**, Springfield, Ohio.

SITUATION WANTED—By a young gardener, German, age 20, 4 years experience, accustomed to all kinds of greenhouse work; would like to have a position, either east or west; can furnish best of references; state wages. Address **EAST or WEST**, Lock box 423, Springfield, Ohio.

SITUATION WANTED—As manager or foreman of public grounds or large commercial places. Have had experience in the leading establishments in Europe and this country. Will be open for engagement about first of January or February. Address with particulars **C. LANGENFELDER**, Michigan State Asylum, Ionia, Mich.

SITUATION WANTED—As foreman on private place, by practical gardener; experienced in all branches of landscape work, vegetables, greenhouse plants, etc.; age 20; best references. Vicinity of Detroit or Eastern States preferred. Correspondence invited. Address **GARDNER**, care Chicago Floral Co., 38 Grand Boulevard, Chicago.

WANTED—A few hundred each, plants *Lilium Trigrinum* and *Orchidea Orange* 20 inches high. Address **SELDEN**, care American Florist.

WANTED—One second hand hot water boiler, in good condition, capable of heating 2,000 square feet of glass. Hinchley No. 5 or No. 16 preferred. Send lowest cash price to **JACOB DICER**, Geneva, Ill.

FOR SALE—\$2,000 for business which yielded \$2,400 net profit last year. Possession at once, everything ready for coming season's trade. Address **W.**, care American Florist.

FOR SALE—Florist business, 5 houses, 10,000 square feet of glass, fine stock, good location, good market, best of reason for selling. Address **B. W. SMITH**, West Haven, Conn.

FOR SALE OR RENT—At a bargain, an old established florist business near St. Paul. Must be disposed of through serious illness. Address **FLORIST**, care American Florist, Chicago.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1893. Address **B.**, care J. C. Vaughan, Box 688, Chicago, Ill.

PARTNER WANTED.

With brains, push and energy and free from bad habits, to take charge of store, packing, shipping and nursery departments. Knowledge of botany and book-keeping, and skill in florists and nursery work required. Also contribution of \$1,000 to the business, \$300 at once, balance within one year. Larger returns from the same amount of capital than in any other branch of the nursery business. Increasing trade among the wealthiest of customers in America and Europe. The World's Columbian Exposition a very heavy customer. **WILLIAM A. BUCHHEITEN**, Dealer in Michigan Wild Flowers, Rochester, Mich.

HELD AT PRIVATE SALE.

Property of forty-five acres, elegant improvements and conveniently located, a well paying business established in Plants, Bulbs, Seeds, Cuttings; five greenhouses 100x24 feet, heated by hot water, and everything in the best of condition. For particulars write

JOHN J. GHEEN, West Chester, Chester Co., Pa.

FOR SALE.

One of the best equipped and arranged Florist stores in upper New York City. Conservatory attached. Must be seen to be appreciated. References if necessary. Address.

C. F. DIHM,

64 W. 125th St., NEW YORK CITY.

FOR SALE.

AN OLD ESTABLISHED FLORIST BUSINESS at Dorchester, Mass., comprising 20,000 feet of land centrally located, on which are:

1 House 70x18 filled with Carnations.

1 House 70x16 filled with Roses.

1 House 70x11 filled with Violets.

1 House 70x10 filled with Violets.

1 Sash pit 70x7 filled with Violets.

1 Dwelling House, seven rooms.

Plants in good condition and houses in good repair. Price, \$6,000.

Address

N. F. MCCARTHY & CO.,

1 Music Hall Place, BOSTON, MASS.
Mention American Florist.

Pines, Wild Smilax AND Palmettos

For XMAS. Order early to insure careful selection and prompt delivery, by

A. E. OELSCHIG,

SAVANNAH, GA.

J. L. DILLON, Wholesale Florist BLOOMSBURG, PA.

WRITE FOR CIRCULARS.

CUT FLOWERS WANTED. Consignments of Cut Flowers wanted by old established florists, in principal market in Philadelphia. Best prices; weekly detailed statement, and prompt monthly cash payment. Best references. **W. G. & H. K. AND FRO.** Terminal Market, Philadelphia, Pa.

Please mention the American Florist every time you write any of the advertisers on this page.

"O. K."

Undoubtedly means "all correct." When rooted cuttings are "all correct" they are healthy, clean, well rooted, true to name, and properly packed when shipped. I guarantee my

ROOTED CARNATIONS.

To be "O. K." in every respect, and will just add that I can supply all the leading novelties of 1893 and 25 newest and best standard varieties in all the colors, including Daybreak, Puritan, Golden Triumph, Emily Pierson, Angelus, McGowan, Hector, etc., etc.

ROOTED COLEUS.

Is also a specialty with me, and is also "O. K." I can supply 25 best varieties extant, and a new yellow coleus of my own, which is so superior that it will certainly become a favorite.

Descriptive Trade List

Sent on request. Address

ALEX. McBRIDE,

ALPLAUS, N. Y.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and Foliage Plants in the country.

FRESH DRACÆNA CANES, all sorts. **LILIAM HARRISII** and **BULBS** for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The Finest Stock in the World.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

SURPLUS ORCHIDS FOR SALE

SPECIMEN DENDROBES

of several kinds. In perfect health, with 40 to 80 bulbs each, with many new ripe ones for flowering. Also many other kinds for sale to make room, or exchange for cool house Orchids.

DR. GEO. W. LITTLE,

GLENS FALLS, N. Y.

Toronto.

The St. Andrews Society ball and sundry lesser events have tended to liven up business and stiffen prices lately, but still it can hardly be said that trade is up to par for this time of year yet.

Two members of the World's Fair committee of the Gardeners' and Florists' Association have been going round this week selecting plants to be sent to Chicago next spring and it is safe to say that if all the plants they put down on their list are sent, Toronto will not be told to take a back seat.

Chrysanthemums are still plentiful but begin to show signs of having seen better days. Their colors will be much missed out of the store windows when they go. Bad weather for the rose growers lately, hardly a gleam of sunshine for the last two weeks. E.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

THE ANJOU PEAR.—A box of fruit of the Anjou pear has been sent us by Messrs. Ellwanger & Barry, Rochester, N. Y. The pears were in splendid condition and of exquisite flavor.

A Great Pair.

EDNA GRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of Aurora at \$15.00 per 100, and Golden Gate at \$5.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Cartledge	Nancy Banks
Pearl	Borner
Golden Triumph	Mrs. Hitt
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. F. Dreer, J. R. Freeman,

and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES

50 Paul Neyron, strong plants, \$10.00 per 100,
30 other leading varieties, \$10.00 per 100.
\$20.00 per 1000.

CHRYSANTHEMUMS.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

ROOTED CUTTINGS.

Carnations.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan, etc. Let me figure on your orders, I will do them right both in quality and price.

LIZZIE MCGOWAN now ready, at \$2.00 per 100; \$15.00 per 1000.

CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

Mention American Florist.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSE
ULRICH BRUNNER.

Extra strong 2 year old field grown plants, \$15.00 per 100.

EDWIN LONSDALE, Florist,
Wyndmoor, Chestnut Hill, Phila., Pa.
Mention American Florist.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,
TERRE HAUTE, IND.

ROOTED CUTTINGS OF CARNATIONS

Here we are again; but in a better shape than ever before. In addition to our extensive range of greenhouses, we have added two new houses, each 50 feet long, devoted to the propagation of carnations only, and hope to be able to fill all orders of any size, from December to June. We have the best of the new varieties recently introduced; also the best standard sorts not superseded by the choicest of the recent acquisitions. Our stock is in perfect health, and more flourishing than ever. Trade price lists will be mailed to all applicants after December 1st.

Correspondence solicited. Watch our ad.

JOSEPH RENARD, Unionville, Chester Co., Pa.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. PENNOCK,
The Pines, Kennett Square, Chester Co., Pa.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

Mention the AMERICAN FLORIST when writing advertisers on this page.

Miscellaneous.

GERANIUMS—A very choice assortment transplanted plants with labels, \$2.50 per 100, without labels, \$2.00 for 100.

ROOTED CUTTINGS—Named, \$2 per 100; \$15 per 1000; without names, \$1.50 per 100, \$12.50 per 1000.

OLEUS—\$1.00 per 100; \$7.50 per 1000.

HELIOTROPE—\$1.50 per 100.

SALV—A. Wettig, \$2.00 per 100.

W. Bedman, \$5.00 per 100.

CALL AND SEE ME OR SEND FOR A LIST.

ALBERT M. HERR, LANCASTER, PA.

100,000 ROSES NOW READY.

We always have a select stock of young Roses in all leading sorts, including all the best novelties.

Our stock will be extra fine, grown with greatest care, and are bound to give satisfaction to any grower of experience.

SEND YOUR LISTS TO BE PRICED.

Our climate and soil enable us to produce Plants and Flowers equal to the best in the country, and our new houses have all new and original improvements. Per 1000

TEA ROSES 2-inch pots, our selection \$50.00

HYBRID PERPETUALS, 2-inch pots, our selection \$40.00

Address **NANZ & NEUNER,**

LOUISVILLE, KY.

New Wholesale Catalogue ready Jan. 1st, 1893.

NOV ON HAND FOR IMMEDIATE DELIVERY, 30,000 BUDDED ROSES, extra strong.

Magna Charta, Ulrich Brunner,
Captain Christy, Persian Yellow,
La France, Bar. Rothschild, etc.

\$10.00 per 100; \$80.00 per 1000. Per 1000

Convallaria majalis, German Pips, extra, \$ 9.00

Tuberose The Pearl, extra, 7.00

Single Begonias, fine mixed, strong builds, 4.00

" " separate colors, " 4.00

Gloxinia, fine mixed, strong builds, 6.00

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Ask for General Wholesale Catalogue.

KAISERIN AUGUSTA VICTORIA

THE COMING WHITE ROSE.

From 4-inch pots, \$ 5.00 per doz.

" 3-inch pots, 35.00 per 100

" 2½-in. pots, 25.00 per 100

J. COOK,

318 Charles Street, BALTIMORE, MD.

ROSES.

TEAS, \$30.00 per 1000

HYBRIDS, 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schultz,

LOUISVILLE KY.

Mention American Florist.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

“AMERICAN BELLE.”

ITS HISTORY. In 1889 Charles P. Lamb, my late foreman, noticed on a plant of “American Beauty” a flower of distinct color, a rich deep pink. This plant was one of a lot originally received from Fields Bros., Washington (the distributors of the American Beauty). After propagating a few of it and growing it for a year I found it retained its distinct and desirable color. The year following (1890) a small bunch of it was planted out. During that winter it attracted the favorable attention of several large rose growers. To further test it: In the year 1891 I planted a house of it and exhibited flowers of it at the fall show in Philadelphia when it was awarded a silver medal for the best new rose. I also exhibited it at the fall show in Madison Square Garden, New York, in the same same year, where it was awarded the silver cup for the best new rose of American origin. The present year (1892) I have several houses of it and have exhibited it in the principal cities throughout the United States, and wherever it has been shown it has attracted the greatest attention and carried the highest honors.

* * * * *

DESCRIPTION.

“American Belle” is undoubtedly the greatest acquisition in roses in many years and is destined to take a leading place from this time forward, not only on account of its distinct and beautiful color, but also for its delightful fragrance, large size and free blooming qualities. I do not claim for this rose that it supersedes the “Beauty,” on the contrary, I am certain there is a distinct place for both and each will fill its allotted sphere. But I do claim that “American Belle” is entirely free from that undesirable purplish tinge taken on by the Beauty after being cut for a few days. And I claim also that it possesses all the fine qualities that have raised the “Beauty” to its pre-eminent position among the roses of the present day. In growth the “Belle” is not quite so vigorous as the “Beauty,” in flowering it is even freer if anything. The foliage also is distinct, being a slightly darker green and more elongated.

* * * * *

PRICE.

I will have young stock, healthy vigorous stuff from 2½-inch pots ready for distribution April 15, 1893, and offer the same at the following very low prices: \$60 per 100, \$400 per 1000 (25 at 100 rates, 250 at 1000 rates). Orders booked now will be filled in rotation according to date of booking; the sooner the order is booked the sooner can shipment be made after delivery commences, April 15th.

* * * * *

PRESS COMMENTS.

New York.—Everybody was in love with it.

“American Belle, a magnificent new rose, a sport from American Beauty, secured, grown and shown by Mr. John Burton, of Philadelphia. It has every good quality of the Beauty and the flowers are of the loveliest shade of bright pink. Everybody was in love with it.”—*Gardening*, Nov. 15, 1892.

Philadelphia.—“Favorable comments on all sides.”

“John Burton exhibited a large vase of his new rose, American Belle, which caused favorable comments on all sides, some even claiming that it would take preference over American Beauty.”—*American Florist*, Nov. 10, 1892.

Philadelphia.—The center of attraction.

“A large beautifully arranged vase of the new rose, American Belle, was shown by John Burton, of Chestnut Hill. It is a distinct gain in color, the clear pink of the freshly cut flowers fades out a delicate pleasing shade instead of the undesirable tinge of blue or lilac which the American Beauty takes on at that stage. It attracted as much attention here as it did in New York.”—*Garden and Forest*, Nov. 16, 1892.

A Silver Medal at Boston.

“The new rose, American Belle, from John Burton, was greatly admired.”—*American Florist*, Nov. 10, 1892.

“John Burton’s beautiful new rose, American Belle, was on exhibition and was honored with a silver medal.”—*American Florist*, Nov. 17, 1892.

“A Distinguished Visitor” at Chicago.

“A distinguished visitor, arriving the second day of the show, was John Burton’s American Belle. There was much curiosity in the trade regarding this sport from Beauty and a strong desire to compare the two. The Belles were arranged with adjacent Beauties, and the criticism was certainly in favor of the new rose. Its perfect freedom from the livid purplish tint which disfigures the Beauty after it has been cut any length of time seems likely to give it great and permanent value. A special certificate of merit was awarded to the new rose.”—*American Florist*, Nov. 17, 1892.

They Like It in Cincinnati.

“Mr. John Burton won the special premium with his sport from American Beauty, which he has named American Belle. This rose was viewed critically by the many professional men present, the major portion commending it for its bright lively rose pink color.”—*American Florist*, Nov. 17, 1892.

The Taylor Cup.

“The Taylor Cup for the best fifty new pink roses was won by John Burton, the variety shown being a new pink sport from American Beauty, named the American Belle.”—*American Florist*, Nov. 17, 1892.

JOHN BURTON, Chestnut Hill, Philadelphia.



THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 26 times, 20 per cent; 52 times, 30 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ANOTHER SPECIAL NUMBER.

On January 19, we shall take much pleasure in presenting to our readers another grand special number. It will be devoted to the carnation. The carnation has been making rapid strides in recent years. Some of our brainiest men are now giving their whole time and thought to its improvement, and fashion has accepted it as a favorite second only to the rose. The FLORIST is glad to take cognizance of this fact and proposes to give the "Divine Flower" that recognition and prominence to which its present position entitles it. The reading columns from our most successful practical carnationists and these articles will be beautifully illustrated. We shall spare no pains to make this the most notable of our successful series of special numbers and a full and reliable record of the achievements of our carnation growers up to date. Advertisers have learned that no medium for reaching the whole trade has ever been given them equal to that furnished in these special numbers of the AMERICAN FLORIST. This one will be no exception to the rule. Those having carnations to offer or new seedlings to introduce are particularly reminded of the rare opportunity here offered. No advance in price from our regular advertising rates.

Catalogues Received.

Reasoner Bros. Oneco, Fla., plants and nursery stock; F. S. Phoenix, Bloomington, Ill., nursery stock; Griffith, Turner & Co., Baltimore, Md., seeds and implements; George Vestal, Little Rock, Ark., nursery stock; R. L. Ragland Seed Co., Hyco, Va., tobacco seeds; C. J. Pennock, Kennett Square, Pa., carnations; J. M. Thorburn & Co., New York, vegetable seeds; John F. Rupp, Shiremanstown, Pa., seeds; H. G. Faust & Co., Phila., seeds; H. Bayersdorfer & Co., Philadelphia, florists' supplies; Wm. Bull, London, England, seeds; same, tuberous rooted plants and bulbs; same, new and rare plants; Victor Schmelz, Sylvan Lake, Fla., wild decorative material; S. B. Field, Roselle, N. J., rooted cuttings; V. Lemoine et fils, Nancy, France, plants.

Advices from Japan are to the effect that the crop of Lilium auratum has been almost a total failure and that the small crop has been in great part bought up at very high prices by speculators and shipped to London. Most of the bulbs that have been imported are very poor and more or less diseased.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

T. J. CORBREY & CO.

WHOLESALE AND COMMISSION FLORISTS,

45 LAKE STREET,

CHICAGO.

(IN CHICAGO CUT FLOWER EXCHANGE.)

Asparagus Plumosus Nanus.

CUT STRINGS, 8 to 10 feet long, 50 cents each.
 12 to 18 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.**NILES CENTER FLORAL CO.,**

Wholesale Dealers in

Cut Flowers
AND FLORISTS' SUPPLIES.**CHAS. W. McKELLAR, Mgr.,**

In Chicago Cut Flower Exchange.

45 Lake St., CHICAGO.

We are now located at our new quarters in Chicago Cut Flower Exchange, and are prepared to fill orders in very best manner. Give us a trial order and see how we please you.

WM. ELLISON,

(Late of ELLISON & KUEHN).

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES.

1402 PINE ST., ST. LOUIS, MO.

Mention American Florist.

C. A. KUEHN,

(Successor to ELLISON & KUEHN).

WHOLESALE FLORIST,1122 FINE STREET,
St. Louis, Mo.

A complete line of Wire Designs.

Mention American Florist.

SMITH, The Florist,

GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

Cut Flowers.**ROSES, CARNATIONS AND**
CHRYSANTHEMUMS.

We can fill orders far above on short notice. Adams, American, United States and Wells Fargo Express Co.'s. Give us a trial order.

GEO. A. KUHLE, Pekin, Ill.**CUT SMILAX.**

From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

THE

Chicago Cut Flower

EXCHANGE.

Incorporated. Capital Stock, \$10,000.

No. 45 LAKE STREET,

Is now open for business. A number of prominent growers have secured space in the Exchange, and a choice and varied stock can be found there at all times to select from.

There are also Commission men in the Exchange who will receive consignments and fill orders promptly.

The Exchange has a limited amount of Table space to rent. Also choice advertising spaces on the walls at a reasonable rate per year. This is an excellent method of advertising; reaching the buyers of Chicago and vicinity, as well as visitors from a distance.

For terms, etc., address

THE MANAGER OF
 THE CHICAGO CUT FLOWER EXCHANGE,
 No. 45 Lake Street, Chicago.

GEO. MULLEN,
WHOLESALE FLORIST,

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House),

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express promptly filled.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application

SAMUEL S. PENNOCK,
Wholesale Florist

38 S. 16th Street, Philadelphia, Pa.

YOUNG BROS.

20 W. 24th St.,
NEW YORK CITY.

THE LARGEST WHOLESALE CUT FLOWER HOUSE IN THE WORLD.

We offer a grand stock of choice **ORCHID BLOOMS**, including **Cattleyas** and **Cypripediums** in unprecedented variety. . . .

An unlimited supply of **Violets**, **Lily of the Valley**, long-stemmed **Carnations**, **Hyacinths**, **Narcissus**, **Smilax**, **Asparagus plumosus** and **Ferns**.

HOLIDAY ORDERS BOOKED NOW.

HEADQUARTERS FOR AMERICAN BEAUTY, METEOR, AND ALL OTHER POPULAR ROSES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.
Mention American Florist.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

M. OLSON,—*
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
Wholesale and Commission
FLORISTS,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

WHOLESALE
FLORISTS
La Roche & Stahl
*
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist

HENRY W. BAYLIS,
Wholesale Florist
940 BROADWAY,
NEW YORK.

@Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 6.	
Roses, Gontier, Niphetos	2.00/2.50
" Watteville, Cush, Perle, Sunset	2.00/2.50
" Mermets, Brides	3.00/4.00
" La France, Meteor	10.00/15.00
" Meteor	10.00/15.00
" Beauty	25.00/30.00
Carnations	1.50/2.00
Violets	2.00/2.50
Valley	5.00/6.00
Roman Hyacinths	2.00/2.50
Mignonette	4.00/10.00
Cypripediums	15.00/20.00
Cattleyas	50.00
Smilax	20.00
Asparagus	50.00
Adiantum	1.00

BOSTON, Dec. 6.	
Roses, Niphetos, Gontier	3.00/4.00
" Brides, Mermets, La France	1.50/2.00
" Perle, Sunset, Wootton	4.00/5.00
" Meteor	10.00/15.00
" Beauty	25.00/30.00
Carnations	1.50/2.00
Valley	5.00/6.00
Hyacinths	3.50/4.00
Narcissus	3.00/4.00
Violets	1.25/1.75
Mignonette	1.50/2.00
Callas	12.00
Bouvardia	1.50/2.00
Stevia, pansies	1.00
Chrysanthemums	17.00/25.00
Smilax	20.00
Adiantum	1.00
Asparagus	50.00

PHILADELPHIA, Dec. 6.	
Roses, Beauties	30.00/35.00
" La France, Albany	5.00/6.00
" Mermets, Brides, Meteor, Bennett	3.00
" Cush, Watteville	4.00
" Wootton, Perle, Niphetos, Gontier	4.00
Valley	5.00
Carnations	1.50
Violets	1.00
Smilax	4.00/5.00
Romans	4.00
Narcissus	4.00
Cypripediums	15.00/20.00
Adiantum	1.00
Smilax	15.00/22.00

CHICAGO, Dec. 6.	
Roses, Gontier	3.00/3.50
" Perle, Niphetos	3.00/4.00
" Mermets, Brides, Meteor, Bennett	4.00/5.00
" Wootton, Bennett, Meteor	4.00/5.00
" Beauty	15.00/25.00
Carnations, short	1.00/1.25
" long	1.00/1.25
" fancy	2.00/3.00
Romans	4.00/5.00
Violets	1.00/1.25
Adiantum	1.00/1.25
Smilax	15.00/22.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
—WHOLESALE—
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St. BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
—WHOLESALE—
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30th St., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.
Mention American Florist.

THEO. ROEHRs,
—WHOLESALE—
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.

MILLANG BROS.,
Wholesale Florists,
5 WEST 27TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale and Commission Florist
113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
Price list on application.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK

Good Things For December.

Astilbe compacta multiflora (new): "Large flowering Spirea," very fine novelty; well budded clumps; stock limited.

Astilbe aurea reticulata: a variegated variety of the preceding; beautiful; stock limited.

Astilbe japonica (Spirea): fine clumps; well budded; large stock; low price.

Valley, Gardiner's XX 3 year Berlin Pips: splendid lot, just to hand; finest quality in the world.

Valley, Gardiner's XX 3 year Be-In Clumps: grand for outdoor planting.

Valley, Dutch stock, 3 year Pips: late flowering, splendid quality; very low price.

Valley, Dutch stock, Clumps: for outdoor planting.

Valley, pink colored variety; very rare.

Valley, variegated-leaved variety; scarce and handsome form.

Dicentra (Bleeding Heart), splendid large roots specially grown for forcing. Have only about 300 roots in this lot. We put them in low while they last.

Dentaria gracilis: strong forcing plants from open ground; stock limited.

Helleborus niger major (Christmas Rose); fine large clumps of the true major variety.

Gloxinas, choice mixed: a rare assortment of the latest erect and horizontal flowering varieties from one of the finest collections in Europe. Offered at a price lower than ever touched before.

Iberian Iris: beautiful variety, purple and white, very rare.

Siberian Iris: a fine mixture of this elegant species.

Japanese Iris: single and double mixed seedlings; some choice varieties may be expected from this lot, offered very low.

Japanese Iris: single and double mixed; clumps.

Iris Susiana: the "Mourning Bride Iris"; very beautiful; succeeds in greenhouse or frame.

Iris Tuberosa: the "Snake's Head Iris"; purple and yellow.

Spanish Iris: beautiful for frame or greenhouse, mixed colors.

Persian Iris: pale blue and yellow, violet scented, dwarf; grand for pot culture.

Peacock Iris: most distinct and curious variety; white with dark center and beautifully blended with purple.

Ixia Crateroides: the best scarlet Ixia in cultivation and the favorite with the Covent Garden growers.

Ixia Viridiflora: green and black; very rare and beautiful; largely grown for Covent Garden.

Siberian Coral Lily (Lilium Tomifolium); we have a fine stock of bulbs of this scarce lily. They are larger than we have heretofore seen them. Brilliant coral scarlet. Will force for winter flowers.

Tartarian Ixia Lily (Ixiofilion); a rare and distinct gem from Central Asia; sky-blue; grand for pots or the borders.

Double Ixiolirion: we supply nice roots of these, well set in 4 separate colors, namely:

Pure White, Dark Red, Blue and Rose.

Stock limited. These make excellent subjects for pot culture as well as for the garden.

"**Fair Maids of France**," (Ranunculus acris, alth. B. pl.); this is the true "Bachelor's Buttons" and is also known as "Fair Maids of Kent." A beautiful hardy plant for pots or the border. Excellent for cutting.

BARGAINS IN BULBS.



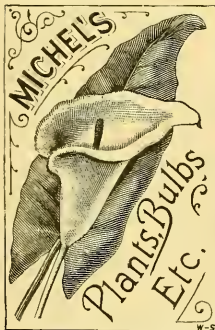
We can please on prices, as our rates are very low. Send us a trial order for some of the above mentioned "Good Things" and be convinced. Glad to quote prices in advance, also, if desired.

JOHN GARDINER & CO., SEED AND BULB MERCHANTS, PHILADELPHIA, PA.

SEED WAREHOUSES AND OFFICES AT

21 North 13th Street, Philadelphia.

To which all Correspondence, etc., must be addressed.



Mention American Florist.

Write for wholesale list.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

SEEDS! PLANTS! BULBS!
Everything pertaining to the Farm and Garden of the best and choicest quality. **PRICES RIGHT.**
Catalogue on application.
WEBER & DON.
114 Chambers St., New York City.

300,000 PANSIES-EXTRA.

THE JENNINGS STRAIN of Large-flowering and Fancy Pansies can be had in any quantity wanted up to December 25th. They are the Winter bloomers and for Spring sales there is no better. Order any size you want and you will get it.

Small plants by mail at 60 cents per 100
Any size to flowering plants, \$5.00 per 1000; 5000 \$20.00 by Express.

Send in your orders early, as there is a big demand for these Pansies. Don't waste and ask if I can fill an order as it is only a matter of time.

Seed of this strain \$1.00 per trade packet of 2,000 seeds; \$6.00 per cask.

E. B. JENNINGS.

CARNATION, VIOLET AND PANSY GROWER,
Lock Box 254, SOUTHPORT, CONN.

HOLLY. "All Florists' Stock In Season."

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have had the experience. We can supply "first-class stock on time." We attempt no competition in price with stock which has never yet arrived, or arrived **after Xmas**. "A case of Holly in front of the store is worth four on the cars." Price, f. o. b. cars Chicago, per case, well packed, **\$5.00.**

NEW YORK:

12 Barclay Street. J. C. VAUGHAN, CHICAGO:

146 & 148 W. Washington St.

XMAS GREENS. BOUQUET GREEN, HOLLY, LAUREL WREATHING, WREATH AND FESTOONING OF ALL KINDS.

Long Needle Pines, Palm Leaves and Crowns. Send for Price List, and order early.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

Holly

BRIGHT GREEN LEAVES, RED BERRIES.
ORDER NOW.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

C. K. HOFFMEYER

Has removed to his new place.
Please have all mail, etc. addressed

MANSFIELD VALLEY, PA.

P. SEBIRE & SONS, Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.
C. G. ABEL & CO., P. O. Box 920, New York.

Mention American Florist.

PETUNIA SEED.

An extra collection of large flowering Double and single fringed varieties, mixed; choicest colors, not grown and hand fertilized; grown specially for florists; no fair strain of Petunias to be had. Order early. Trade Pkt. 30 cts.; 2 Pkts. 50 cts.

JOHN F. RUPP, Shiremstown, Pa.

World's Fair Notes.

A recent addition to the horticultural section is an importation from Japan, chiefly consisting of characteristic shrubs and dwarf trees. One of the most remarkable specimens is a dwarfed plant of *Biota obtusa*, about three feet high and four feet in diameter; this, it is asserted, is 400 years old. Another very old plant is a dwarf tree of *Pinus parviflora*; this, though but a small shrub under the artificial conditions employed to dwarf it, grows naturally to a handsome tree 25 to 40 feet in height. These dwarfs, being of great value, are to be returned to Japan at the close of the exposition; the rest of the exhibit will remain here. Some very charming maples, daphnes, elegans and other shrubs, *aspidistra*, etc., complete the present consignment from Japan, but there is a large exhibit yet to come for the horticultural department. The Japanese will occupy quite a large space in the horticultural building; they are now erecting a native pavilion there, which will display some part of the exhibit.

The large bamboos, which will be remembered by visitors to Horticultural Hall, Philadelphia, are now here; they are extremely fine specimens. The large collection of primulas is now well in flower; the plants will be in perfection about the first week in January, when the judging will take place. The flowers present some remarkable variations, both in color and form, and all are in splendid condition. For several weeks to come the primulas alone are worth a visit to the Fair Grounds.

CHRYSANTEMUMS

CHOICE STOCK PLANTS.

MRS. E. D. ADAMS, FLORA HILL,
MRS. W. S. KIMBALL, MRS. J. G. WHILLDIN,
HARRY MAY, EDA PRASS,
ADA McVICKER, MRS. ROBT. CRAIG,
HICKS ARNOLD, MRS. GOV. FIFER,
ANNIE MANDRA, YONITA,
MRS. SENATOR HEARST, EMMA HITZEROTH,
KREIGER, MARIA SIMPSON,
LILLIAN RUSSEL, MRS. J. WESTCOTT,
JOSEPH A. WHITE, FRANK THOMSON,
And Mrs. L. C. MADEIRA,

The largest yellow Chinese incensed variety. It is appropriately dubbed the Golden Ball. It should be in every collection.

DAILLEDOUZE BROS.,

PLATBUSH, N. Y.

CHRYSANTEMUMS.

STOCK PLANTS. Choicest varieties, 35c each.

Mrs. E. D. Adams, Waban,
Mrs. W. S. Kimball, Geo. W. Childs,
Harry May, Mrs. Gov. Fifer,
Vivian Morel, Potter Palmer,
Mrs. J. G. Whilldin, W. A. Munda,
Eda Prass, Annie Munda,
Frank Thomson, Geo. Savage,
Mrs. Frank Thomson, V. H. Hickock.

Good old standard varieties, 20 cts. each.

Ivory, J. N. Gerard,
Mermala, Louis Boehmer,
Ada Spaulding, L. B. Bird,
Minnie Wannmaker, Snowball,
W. H. Lincoln, E. G. Hill,
L. Canine, Mrs. Potter,
Mrs. J. Westcott, Molly Hawn,
Yonita, W. W. Coley,
Cullingtonville, John Good,
Mistletoe, Elmer D. Smith,
H. E. Wikler, Joseph,
Robinson, Althea Landen,
Alenazar and other varieties. Set for \$10.00.

S. PICKELMAN,

352 William Street, BUFFALO, N. Y.

CHRYSANTEMUMS.

STOCK PLANTS.

Standard market sorts \$ 5.00 per 100
Newer sorts 10.00 per 100
Send for list of wants and let me make you prices.
Address J. G. BURROW,
FISHKILL, N. Y.

CHRYSANTEMUM NOVELTIES.

Ready for distribution March 1st, 1893.

NIVEUS.—A grand snow white variety. Winner of the Gold Medal and \$100.00 at Cincinnati; the Periam and Thorpe Special Prizes at Chicago. Also \$25.00 at Indianapolis, and the same at Bay City, as the best seedling, any color, for 1892. Also Certificate at Springfield.

N. B.—"NIVEUS" I predict will not be deposited for eight years, as it has in its composition nearly everything that at this day leads me to believe is nearly perfection; its snowy whiteness is beyond civil, its elegant shape is such as to please the most fastidious, its size is far above the average without the slightest approach to coarseness, its footstalks are strong and graceful, its foliage is perfect; in other words it is a 'gem.' JOHN THORPE.

MRS. M. W. REDFIELD.—A decided early peach pink. Certificate at Springfield, Mass.

REDONDO.—Orange and old gold. Certificate at Indianapolis, 1891.

EREMNIDA.—Color a soft pleasing shade of pure rose pink without shadings.

ALBA VENUS.—The white flowers resemble bunches of Angora wool. Certificate at Springfield.

MILES A. WHEELER.—Best yellow at Indianapolis, 1891. Certificate at Boston, and best seedling at Sharon, Pa., 1892.

DR. H. D. HULL.—From the same seed head as Harry Balsley; cameo pink. Certificate at Indianapolis, 1891.

PARTHENIA.—A beautiful white, maturing for Thanksgiving use. Awarded Premium as best white seedling at Indianapolis, 1892.

NET PRICES TO THE TRADE.

Single Plants.....\$0 75 | 25 Plants.....\$14 00
1/2 ".....7 50 | Purchaser's choice.

Price for larger quantities on application. Orders filled in strict rotation.

NATHAN SMITH & SON,
167 W. MAUMEE ST.,
ADRIAN, MICH.

CHRISTMAS Delivered at Your Door. GREEN.

I am not quoting prices at Evergreen, Alabama, or any other point a thousand or two miles away from you, but I do quote them delivered right at your door—all Express charges prepaid. I will send

1 Barrel Wild Smilax for.....	\$3 25
1 Bale of 3 Barrels Wild Smilax.....	5 00
1 Dozen Chamaerops Palm Crowns, 4 to 5 feet.....	8 00
4 Sabal Palm Crowns, 5 feet.....	5 00
1 Dozen Long Needle Pines.....	5 00
100 Chamaerops Palm Leaves.....	4 00
100 Sabal Palm Leaves.....	5 00
1 Barrel Magnolia Leaves.....	3 25
1 Barrel Gray Moss.....	3 25
1 Barrel Holly, plenty berries.....	3 25
1 Case Holly, ".....	6 00

If you want a Mixed Case, I will send small quantities of each at same price, but orders must not be for less than \$3.25.

Cash must accompany order. Positively no goods C. O. D.

SEND FOR ILLUSTRATED CATALOGUE.

CALDWELL, THE WOODSMAN,
EVERGREEN, ALA.

YOUNG BROS.,
WHOLESALE FLORISTS,
20 W. 24th Street, New York.

Palms, Ferns and other choice Decorative Plants in any variety or size. Also a full line of Seeds, Bulbs and general horticultural requisites, including Tobacco Stems in any quantity.

We have the exclusive sale of Park & McCrowe's unequaled strain of Tuberous Begonias, which for uniformity of habit and richness of color cannot be excelled.

We are also booking orders for the beautiful new pink rose—the novelty of the season—MADAME CAROLINE TESTOUT, and the new white rose KAISERIN AUGUSTA VICTORIA.

Rooted Cuttings.

Carnations, New Scarlet, Emily
Pierson.....\$3 00
Leading varieties.....1 25
Violets, Russian and Neapolitan.
Coeles and Alternantheras in var.

A. N. PIERSON, Cromwell, Conn.

Mention the American Florist when
writing to advertisers on this page.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.
ROOTED CUTTINGS. . . .

SEND FOR LIST.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

BLACK CALLA



Until DECEMBER 15 we will dispose of a fine lot of **BLACK CALLAS**, home grown stock, ready to grow now, at **\$18 00 PER 100** or **\$3 00 PER 12**. After that date we pot them and charge a higher price.

GLADIOLUS NANCEANUS. The largest flowers known; 10 named varieties, 50c. each. Price elsewhere is \$1.00. Send for List of Inventors in Bulbs.

A. BLANC & CO., Philadelphia.

Mention American Florist.

"CHRY-S-COLA"

Rooted Geraniums.

BRUANT,
LA FAVORITE,
S. A. NUTT,
HETERANTHE.

Large stock of these varieties ready to ship; \$1.50 per 100; \$12.50 per 1000. Cash with order. For other varieties send for Chry-S-Cola price list.

S. B. FIELD, Roselle, N. J.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100, \$6.00, sent by mail.

BRAUER & RICHTER,
..... **MCCONNELLSVILLE, O.**

CANNAS.

20,000 TO 25,000 CANNAS.

CROZY'S, 12 kinds.

EHEMANNI, NOUTONI, ETC., ETC.

Send for prices, stating quantity wanted.

E. S. NIXON, Chaltanooga, Tenn.

Genista Racemosa.

Fine, bushy plants in 8-inch pots, for sale cheap for want of room. These plants will make splendid Easter plants.

LEMUEL BALL,
WISSINOMING, PHILADELPHIA.

TO MAKE ROOM.

Per 100
Coles, strong, 2-inch pots, 12 best sorts..... \$ 2.50
Cineraria by gr. strong, 2-inch pots, mixed, just the thing for spring sales..... 3.00
Pilea (Artery plant), 2-inch, very strong..... 2.50
Carnation, Coleus and Verbena, rooted cuttings, prices on application.

R. A. McPherson, Litchfield, Ill.

Sherwood Hall Nursery Co. TIMOTHY HOPKINS.

Offices and Salesrooms:

427-429 Sansome St

501-503 Clay St.

SAN FRANCISCO, CAL.

Exporters, Importers and Growers of

Trees, Plants, Seeds, Bulbs.

WHOLESALE FLORISTS.

GREENHOUSES.

NURSERIES.

SEED FARMS and

TRIAL GROUNDS

Menlo Park, Cal.

DWARF CALLA LILY "The Gem". A novelty of more than ordinary merit, seldom exceeding a height of 10 inches, and producing from a bulb no larger than an ordinary crocus, three or four perfect blooms. The great advantage in saving space must suggest to the intelligent florist that "THE GEM" is one of the things he cannot afford to be without. **STOCK LIMITED.** Prices, free by mail or express, per dozen, \$2.50; per 100, \$18.00.

Cosmos grandiflora, pure white, per ounce, 60 cents; per pound, \$6.00.

Cosmos grandiflora, mixed, per ounce, 50 cents; per pound, \$5.00.

Hollyhock, in separate colors. canary, cream purple, red, rose and white, each per oz. 75c.; per lb. \$7.50

choice mixed, per ounce, 60 cents; per pound, \$6.00.

Smilax, per ounce, 30 cents; per pound, \$3.00.

PALM SEEDS. Of these we can supply every desirable variety. Consignments constantly arriving. If interested, sent for special list.

We are the People!

Who? KOFFMAN,

Where? WALDEN,
Orange Co., N. Y.

What? SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds

At \$1.25 per 100.

And he pays the Express.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

ROSKOOP, HOLLAND.

Now on hand in New York:

CLEMATIS, 3 Years, per 100, \$30.00

H. P. ROSES, for forcing, 9-00

In the best variety, as Alfred Colomb, Anna de

Diebach, B. Rothschild, Fisher Holmes, Gen-

Jack, La France, Mme. G. Luizet, Mme. Plant-

ier, Magna Charta, Paul Neyron, P. C. de Ro-

han, Merville de Lyon, Ferte des Blancs, Ulrich

Brunner and other sorts. Azaleas, Rhod-

dodendrons, Spiraeas, etc. We also have Palms,

Dracaenas, Arancarias and Bay Trees at our

nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,

JERSEY CITY, N. J.

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French hardy hybrid Nymphaeas. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

IF YOU WISH TO GIVE YOUR BUSINESS A BOOM! PUT IN THE

SNOW GREST DAISY

It will help to cheer the winter's gloom, And make the times go easy.

Stock practically unlimited. All this **DAISY** needs is to be seen soon to be appreciated. It can **BLOW ITS OWN HOEN** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar; 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—a few ounces left. 50 seed 50c.; 1000, 50c.; 24 oz. \$1.50; 1/2 oz. \$2.50; 1/4 oz. \$4.00. Plants of same 60c. per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strain, in fine mixture, plenty of whites, intense crimsons and purples, with all the intermediate colors and tints, in packets of 1000 seeds. 50c.; 1/4 oz. \$1.30; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose; you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds, 25c.

Double fringed Dianthus, fine strain, all colors mixed, trade packet, 25c. Rooted cuttings and small plants of our leading specialties later. Address, cash with order, please, **J. C. GIBSON, Woodbury, N. J.**

Mention American Florist.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

GRAPE VINES.

(FOREIGN.)

All the leading varieties for cultivation under glass, in following sizes: Fruiting vines for forcing in pots, 1 year, 2 years, and extra strong. Also Peaches and Nectarines, specially prepared for forcing in pots and tubs. Booked orders stored until May 1st if desired. Prices upon application.

JOHN G. GARDNER,
JOBSTOWN, N. J.

VERBENA SEED.

Mammoth Flowering. Extra. This grand strain of Mammoth Verbenas has given perfect satisfaction to my many customers in the trade, and is justly claimed to be the finest in cultivation. Flowers measure an inch in diameter, in immense umbels; of the finest colors. Liberal trade pkt. 25 cents; 3 pkts. 60 cents; 6 pkts. \$1.00.

JOHN F. RUFF, Shiremaustown, Pa.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED

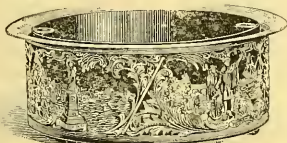
— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

August Rolker & Sons



COLUMBIAN JARDINIERS, Bronze, finest, 10 in. diameter, \$2.00; 12 in. diameter, \$2.50 net.

136 & 138 West 24th St., NEW YORK.

HOT BED AND VENTILATING SASH

CLEAR

CYPRESS

SASH

BARS

CYPRESS GREENHOUSE MATERIAL

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

RUDOLPH HANTZSCH,

Wholesale Manufacturer of

WHEAT • SHEAVES.

Importer and Manufacturer of
FANCY BASKETS and FLORISTS' SUPPLIES.

Full line of Metallic Wreaths, Crosses,
Anchors, Etc.

S. W. Cor. 7th St. and Lehigh Ave., Philadelphia Pa.

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN
and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

STOTT'S KILLMRIGHT

SYSTEM OF PRAYING
KILLS, INSECTS AND
MILDEW
PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRIUTER
CHARGED WITH KILLMRIGHT, CONNECTED
WITH FAUCET READY FOR USE. WORKS
EQUALLY WELL WITH A GARDEN ENGINE.



CELL "A" CONTAINS THE KILLMRIGHT

CIRCULAR AND
TESTIMONIALS.

STOTT GARDEN IMPLEMENT
COMPANY
136 LIBERTY ST. NEW YORK.



To the Florist Trade.

We call attention to the Finest Assortment of

JARDINIERS

we have ever placed before the trade at this season. **ONE HUNDRED** different
shapes and designs, in every variety of color—Yellow, Rose, Olive, Turquoise,
Blue, Terra Cotta, Canary, etc., also fine Gilt Decoration.

An early call will pay you.

Respectfully,

J. M. YOUNG & CO.

37 & 39 Murray Street, NEW YORK.

Mention American Florist.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

FOSTITE

cures MILDEW on ROSES and CARNATION
RUST. Recommended by leading horti-
culturists and florists after careful tests.

JOOSTEN'S MAGAZINE BELLOWES, the best for distributing Plant and Insect Powders.

For Sale by Wholesale Dealers, and

C. H. JOOSTEN, 3 Coenties Slip, New York,

Importer of Plants and Bulbs.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

Please mention the AMERICAN FLORIST
every time you write to an advertiser.



PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Worcester, Mass.

Chrysanthemums are still holding on well and good flowers of Gold, W. W. Coles, Mermaid and Mrs. Chas. Carey are selling readily at \$2 a dozen. Roses are a little short just now, but what we are getting are of good size and color; indications point to a good crop for Christmas. Carnations are plentiful and of very good quality, selling readily at 50 cents a dozen. Roman hyacinths and Narcissus grandiflora are in the market, and some very fine bouvardia; violets are bracing up now that we are getting cold weather, but the supply is far below the demand.

Thanksgiving trade was very large and almost entirely in cut flowers and chrysanthemum plants. We had plenty of stuff and got good prices.

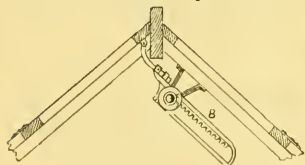
Lange put in a handsome decoration the 28th for a 'tea' given by a prominent society woman and got splendid effects with palms and pink, yellow and white "mums." Key's put in a decoration for the Firemen's Ball in Mechanic's Hall, Dec. 2, using a great many evergreens. Trade in general is good.

The committee of arrangements of the Horticultural Society met Nov. 17, and revised the schedule, putting in some much needed changes. SEEDLING.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

SEE WHAT THE FLORISTS SAY ABOUT

The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more order sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."

Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,
HARMON & BURK.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.OUR . . .
HALF-TONE

ENGRAVINGS

. . . ARE MADE BY . . .

J. MANZ & CO., Engravers,
183 to 187 Monroe St., CHICAGO, ILL.

The work in this journal speaks for itself.
Publishers American Florist.

STANDARD FLOWER POTS.

NORTH CAMBRIDGE MASS., July 25, '92.

We are manufacturing a car load of Flower Pots daily, or nearly double the quantity that we were making one year ago. If they were not the **BEST** made in the country, we could not dispose of them in such quantities.

A. H. HEWS & CO.

NORTH CAMBRIDGE, MASS.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse:

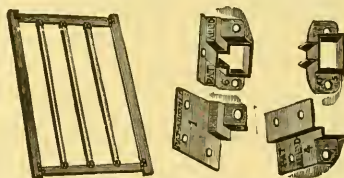
713 & 715 Wharton St., Philadelphia, Pa.

Randolph Ave. & Union St., Jersey City, N. J.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

H. BAYERSDORFER & CO.,

WHOLESALE
FLORISTS' SUPPLIES ONLY,58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists,
Nurserymen, Seedsmen. Write toJ. Horace McFarland Co.,
HARRISBURG, PA.

YOU CAN

SAVE MONEY BY
PURCHASING
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

MARSCHEUTZ & CO.

FLORISTS' • SUPPLIES.

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

World's Fair.

We have obtained a quantity of the
handsome colored lithographs of the

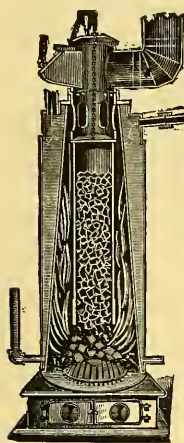
Horticultural
Building

of the World's Fair, at a special low
rate, and will mail a copy, prepaid, in
a tube, to any address on receipt of
the price, now reduced to **50 cents**.

American Florist Co.,

322 Dearborn Street, CHICAGO.

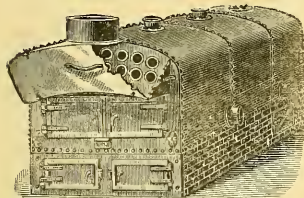
When you write to any of the ad-
vertisers in this paper please say that
you saw the advertisement in the
American Florist.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
Send for Catalogue.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist.

**HERE WE ARE
AGAIN.**



Send on your orders
for Sash Bars and Ventilating Sash. All
kinds on hand.

PROMPT ATTENTION.

Itemized Estimates
given, and cost of
freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

Clear Cypress,

from bottom gutter up
is my specialty.

**Lyman Felheim,
ERIE, PA.**



**GREENHOUSE HEATING
AND VENTILATING.**

Superior Hot Water Boilers.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N. Y.

Send for Catalogue.

THE LATEST AND BEST

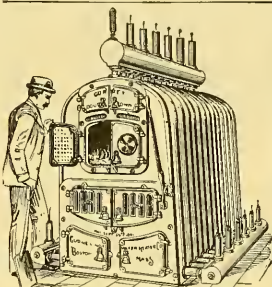
for heating

GREENHOUSES AND CONSERVATORIES.

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature,

without concurrent circulation.



THE "GURNEY" DOUBLE CROWN.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling { New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Agencies: { Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

GARDENING

Edited by William Falconer, tells amateurs in gardening *what they want to know* in plain language *that they can understand*. Published twice a month, at \$1.00 a year (24 numbers), by **THE GARDENING CO., Monon Building, Chicago.**

FIRST-CLASS CERTIFICATE OF MERIT.

**PERFECT
DRAINAGE**

BENCH TILE.

For testimonials, circulars, etc., address

UPLAND GREENHOUSES,

W. P. WIGHT,

MADISON, NEW JERSEY

JULIUS TESMER & CO.,

Manufacturers of all kinds of

Ice Boxes

ESPECIALLY FOR FLORISTS.

937 to 941 N. Western Ave., CHICAGO.

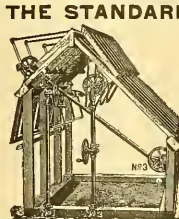
—Telephone West 670—

D. H. ROBERTS,

159 & 161 South 5th Ave., New York.

NATURAL GAS MADE GLASS

for Rose Houses, Conservatories, etc., etc. Our glass received the highest award at the Boston Convention of the S. A. F.



**THE STANDARD Ventilating
Machines**

Received best awards

at

BUFFALO, N. Y.

BOSTON, MASS.

TORONTO, ONT.

Send for Catalogue

and prices.

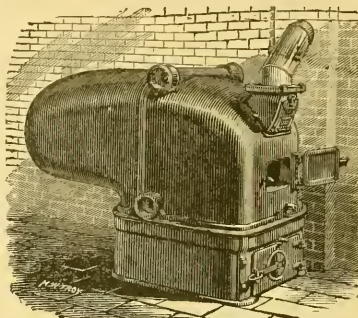
E. HIPPARD,
Youngstown, O.

Index to Advertisers.

Abel C C & Co	452	456
Adv Rates, etc.	450	
Andorra Nurseries	453	
Hall Lemuel	455	
Baller F A	456	
Baylis Henry W	459	
Bay State Hdw Co	458	
Bayersdorfer H & Co	458	
Berger H H & Co	452	
Blane A & Co	456	
Bonsell Jos E & Son	460	
Boston Letter Co	456	
Brackenridge & Co	447	
Burns J H	456	
Brauer & Hechler	455	
Burns & Raynor	451	
Burrows J G	454	
Burton John	449	456
Caldwell Geo W	454	
Carmen R W	457	
Cardmy J D	458	
Chicago Cut Flower Ex	450	
Chubb J E	458	
Cook John	448	
Corbrey T J & Co	450	451
Dalleize Bros	454	
De Lamater Iron Wks	450	
Diam P	447	
Dillon J L	447	
Dreer H A	452	
Edwards Theo	452	
Elliott W H	450	
Elliott Wm & Sons	450	
Ellison Wm	450	
Farquhar R & J Co	452	
Faust H G & Co	452	
Felheim Lyman	450	
Feld R H	455	
Frisquette Carl	452	
Frost James	452	
Gardening Co The	450	
Gardner J & Co	453	
Gardner Jno G	453	
Gheen John J	447	
Gibson J C	455	
Gonzalez & Co	456	
Gurney Heater Co	459	
Hall Asa	458	
Hantschke Rudolph	457	
Hart James	451	
Hart Michael A	451	
Hartford H E	453	
Hedl Jos	451	
Herr Albert M	448	
Hews A H & Co	448	
Hill E G & Co	448	
Hippard E	449	
Hitchins & Co	449	
Hoffmeyer C R	451	
Hooker H M Co	450	
Horan Edw C	451	
Hulsebosch Bros	448	
Hunt E H	451	
Hunt M A	448	
Hunter & Parry	451	
Irvine John Co	456	
Jeffords J E & Co	457	
Jennings F B	453	
Joosten C H	457	
Kennedy Bros	451	
Kirkland W G & Bro	447	
Knapf Oscar & Co	452	
Koffman E	455	
Krick W C	456	
Kroeschell Bros	450	

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

Patents Recently Granted.

Rake, J. T. Thompson, Oneida, N. Y.;
Seed sower, R. J. Strong, Shiremaunstown,
Pa.; Transplanter, N. O. Starks and A.
G. Felland, Madison, Wis.; Garden culti-
vator, A. J. Bruner, Madison, Mo.; Ir-
secticide distributor, C. H. Joosten, N.
York,

TOBACCO STEMS

FOR FLORISTS.

Packed in bales.

price.

200 lb. bale, \$2.50

500 lb. bale, \$5.00

CANE STAKES.

Fresh stock; per 1000.

7 to 10 ft., \$7.00.

WM. ELLIOTT & SONS,

SEEDSMEN,
54 & 56 DEY ST., NEW YORK.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,

244 CANAL STREET,

NEW YORK.



Do You Want
A RELIABLE
SUPPLY OF
WATER

For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
All of this can be accomplished by using the Improved

RIDER
HOT-AIR
OR
ERICSSON PUMPING ENGINE

Catalogue with full particulars sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.



ERICSSON

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, DECEMBER 15, 1892.

No. 237

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 27 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.
The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Roses—Watering young roses	461
—Our telephone	462
—Color in the Niphotos rose	462
—Remontant roses	462
—Bunch of Testout roses (with illus.)	463
California notes	463
Society of American Florists	463
Chrysanthemums—Notes on varieties	464
—Chrysanthemum show finances	464
—Chrysanthemum J. H. Cliffe (illus.)	465
—Exhibition Frederick Floral Society	465
Carnations—Seasonable hints	466
—New carnations	466
—Carnation plants in open ground	466
—Carnation disease	466
An admissible symbolic arrangement (illus.)	466
Philadelphia	466
Toronto	467
New York	468
Boston	468
Washington	468
Chicago	468
World's Fair notes	469
George W. Childs (with portrait)	469
Employer and employee	469
Spring bulbs in the south	470
Another special number	472
Our trade directory	472
The seed trade	474
Dipladenias	476
Cleveland	478
Chrysanthemum shows in England	480
Foreign notes	482

WE HAVE received from Mr. J. J. Styer, Concordville, Pa., a big bunch of handsome blooms of Lamborn carnation. They were certainly fine and Mr. Styer writes: "The plants producing them have had no special care and have not been disbudbed."

ROCHESTER, N. Y.—The 38th annual meeting of the Western New York Horticultural Society will be held in this city Jan. 25 and 26 next. Programs may be had on application to the secretary, Mr. John Hall, 406 Wilder Block, this city.

MILWAUKEE, Wis.—Mr. A. W. Bennett has resigned his position with Currie Bros. and has returned to the east.



Watering Young Roses.

BR. AM. FLORIST.—In your issue of November 24 I have only just noticed an article on page 412 by "Inquirer," asking for information about watering young roses. The varieties he seems to grow especially are Brides and Mermets. From the description he gives it would appear to be rather remarkable if the plants did thrive very well with such treatment.

The best system we have found in watering plants is first to have the soil in nice friable condition before putting in benches, not being too wet or too dry, then as soon as the house is filled to get the plants in their position press the soil thoroughly firm around each plant leaving a small dish or basin around each plant for the water. The rest of the soil we leave somewhat loose. This for the reason that we want the water taken directly to the roots of the plants as much as possible and which we succeed in doing by the above method. We water freely as required and syringe also very freely, in very hot weather twice or three times a day as the times may demand.

After the plants have started to make good fibrous roots we then press the whole soil in the beds or benches quite firmly. Smooth it off after this is done and add a light mulching of manure, then all is watered alike as required. In very hot dry weather of course it will require a great deal of water; in dull, cloudy weather a proportionate amount less.

"Inquirer's" remarks about using rank manure are very timely and very much to the point. No cultivator who thoroughly understands his business would undertake to use any kind of manure in its raw, rank condition. It should be thoroughly decomposed before being used in any condition whatever either for mixing with the soil or for mulching afterward.

Further on "Inquirer" makes some remarks that are not quite in accordance with what is considered the best rule of the day, wherein he says, "If I were growing roses now I would dig my sod in August or September and use fully one third good rotten barnyard manure." If he intends to mix in manure with the soil and leave in the open air till the following spring all right, in thin layers, but my advice to cultivators would be,

do not collect your soil too early. It rots the fibre and if piled in large heaps does not work as good as when collected in the spring with the roots and even the grass fresh on it, well decomposed manure incorporated into it, turned over two or three times to thoroughly assimilate every particle of the manure with the soil and used right away. In fact, I would prefer it if I could so arrange my work in the spring of the year to have time enough to do it, never to collect a bit of my soil till within three or four weeks before putting in the greenhouse. The fresher the sod, the more life and fibre the better, for the roots of any young plant, particularly the rose, will take hold of it in very much better shape than if collected in a big heap several months before using; this I have proved from long experience.

Furthermore, let me remind some of our less experienced rosarians than "Inquirer" seems to be, not to use too heavy an amount of manure. The time was, some years ago, when it was considered the rose needed one-half manure to grow it in, but this has been exploded long since. Many of the finest roses grown to-day are grown with one-sixth to one-eighth part manure to the soil. You can overfeed a rose just as you can an animal till they really will not take rich food any more. Give plants, as the animal, an appetite and they will feed grandly upon what they get, but go to the extreme in either way and they will be very dainty about what they take and get so that no kind of choice food will tempt their appetites. Plants and animals are very much alike in this respect.

Further on he says: "If his plants at any time after making a firststart showed signs of giving out I would use some clean fertilizer." With the amount of manure that he advocates if a plant gave out it would not be for want of nourishment, it would simply be from overfeeding. Overfeeding plants has caused more deaths, and also disease, than almost any other cause to which we have to attribute the ills and evils to which our calling is subject. I some years ago called the attention of the readers of this paper to a case of liquid manure, and certainly from the amount of feeding that "Inquirer" advocates I am very much inclined to think that his plants would suffer in the same way that they did.

Now I do not want to criticise what "Inquirer" says; on the contrary what I am saying here is simply to open discussion. Many of these points that are advanced by him are opening the gates wide for discussion. While his amount of fertilizers may be satisfactory to use in some particular soils where they are extra poor, for the generality of sod that can be obtained in this country that has been simply treated, I feel certain he advocates very much too large a propor-

tion of manure for greenhouse cultivation, where the plants are confined with this around the roots and no chance of getting their roots away from it. On the contrary, in the open air such a dressing would be very desirable for roses, because there all the surplus ammonia arising from the manure is absorbed by the natural soil around it and below it and will do no harm, in fact, on the contrary will be quite beneficial if they get moisture enough to prevent this manure from getting heated or full of fungus.

The great point we should all bear in mind in growing plants under glass is the difference between the artificial conditions in which they are produced and the natural conditions in the open air. They are as distinct and dissimilar as it is possible to have two conditions, and by modifying that under glass to the requirements most natural to the plant we are most likely to obtain the best success.

JOHN N. MAY.

Our Telephone.

"Hello, Central, connect us with Clifton, N. J."

"Clifton connected. Who do you want in Clifton?"

"Oh, some of those chaps that are getting wealthy growing American Beauties at a dollar a yard. Give us S. C. Nash to begin with."

"Here he is; go ahead."

"Hello, Nash, how are your Beauties looking this season?"

"Not as well as I should like. For some reason the plants do not seem to take hold. After the first crop of buds has been cut from them they should start up and grow, but they simply stand still."

"What do you think is the cause of the trouble?"

"I don't know why it is. I am not going to put on an air of superiority and claim to know more than I do. There is something radically wrong and I am free to say I cannot explain it. They have always done well here before. These plants were just as good as any I ever had, just as good soil, careful cleaning, and all that. There is plenty to learn about American Beauty growing, yet. One year you have success and you attribute it to certain things, and next year you find that you didn't understand it at all."

"Do you see any black spot out there?"

"Oh, yes, once in a while. I am a kind of laughing stock among the growers here regarding black spot. I find that a house infested with black spot often yields best."

"How can that be?"

"Well, this is my theory. When a leaf gets old and hard it is through with its usefulness and is not doing the plant any good. A big lot of foliage alone doesn't mean anything. I have seen a grand looking house that gave only about 70 cents to the plant. There are plenty of houses suffering on account of the dense shade caused by the heavy foliage. Now when black spot strikes them we send a boy through to pick off the diseased leaves. This lets the sun in, just what the plants want. Why, some years it is so bad that for two feet from the ground up the plants are nothing but bare canes. Such houses I find have always produced more buds and better buds than any others. Because I have said so they think that I advocate black spot. I don't. It is simply the picking off."

"Are your plants ever troubled with elworms?"

"I don't know whether we have ever

had them or not. We have had plants that showed the same symptoms that those infested with elworms are said to show, but by running dry we have always got rid of the trouble readily."

"Green fly? We fight it early in the season with fumigation, but later when the buds become valuable we put tobacco stems on the walks. Red spider we keep down with syringing."

"How soon do you begin to strike cuttings for next year's planting?"

"Latter part of December, January and February. The young plants require shifting once in five weeks. We begin planting middle of May and are all done by first of July."

"Much obliged. Now central, we will switch off and see what W. H. Young has to say."

"Hello, Mr. Young."

"Hello."

"How do the Beauties prosper?"

"All right."

"Clifton seems to be a great Beauty center. Is there any special virtue in Clifton soil?"

"I think Clifton soil gives Beauty a good color."

"What in your opinion is the cause of failure of the Beauty one year under conditions exactly similar to those under which it was a success in the previous year?"

"That's too much for me."

"Do you have much blind wood?"

"No."

"How can you distinguish blind wood from blooming wood?"

"Well, we never give any of them up in despair."

"All right; good bye. Central, connect us with George Young, please."

"Hello there, George, is that you?"

"Yes, sir."

"We want to get a little information from you regarding American Beauty growing."

"Don't know anything about them."

"Here, here, you must do better than that."

"Well, sir, it's a fact. I've been round the flower business for twenty years and the longer I live the less I know."

"Have you got a secret?"

"I'm not agoing to tell you. It wouldn't do anybody any good to try to copy, anyway."

"To what do you attribute your success in growing Beauties?"

"Oh, hard work and hard experience. Sometimes it is just blind luck. You can't always tell how you are coming out. You hit it all right for a couple of years, and then the first thing you know you are in the soup. You think you know all about it, but you soon find out its another kind of a cat."

"In growing the Beauty for the market what do you find are its especial requirements as to culture?"

"There is no rule to go by. It is just the same as any other rose. Its little details that we get beat on. Letting sunlight through the plants, temperature, ventilation, all count. Strict attention to details is everything. I don't like this dark weather we have been having. We get soft shoots. We cannot syringe and the temperature must be gauged accordingly."

"Is there anything in Clifton soil?"

"Nothing. Oh, yes there is, too! Cut worms. I was foolish enough once to build one of my houses over the original sod. I got a crop of cut worms and nothing else. But, say, let me tell you one thing. American Beauty utilizes thousands

of feet of glass. A better thing for the other roses could not happen. From now on it will produce but little. Other roses will bring more than they would otherwise. The more roses of the Beauty type grown, the better."

"Is that your reason for confining yourself to American Beauty?"

"No, sir. Dollars and cents is what we are looking for. But the grower does the work, you know, and the commission man makes the money."

Color in the Niphetos Rose.

In the AMERICAN FLORIST for Sept. 29, Mr. Ulbricht in a comment upon the color of the Niphetos rose, says that in my color description of the flower (in a previous issue) I lost the pink tinge which is very noticeable in it. I have lately examined a large number of Niphetos roses but strange as it may seem, I have failed to discover the presence of any pink, yet everybody tells me it is characteristic of the flower. Since this must be the case I suppose the pink tinge should be added to the credit column of my account of Niphetos! But at the same time, I am somewhat sceptical about that word *pink* for the following reasons.

The flowers chosen for color description in my article, were picked out because of their freedom from any foreign tinge of color. I did see at the time several blooms scarcely beyond the bud, very decidedly tinted with buff or flesh color at the heart; this autumn, I also found a number with the same tinge of color; but this is not pink, and I fear it is sometimes wrongly so called.

Pink is a color name which ought to be confined to a distinctly limited color tone, or else the word should be qualified, as for example, "salmon pink," "shrimp pink" and "magenta pink;" by such names as these we know the writer does not mean plain *pink* but something decidedly different.

Farther, I note that it is said that the Niphetos has a pink tinge sometimes on its outer petals particularly at a certain season of the year. Even this pink, so called, I am inclined to bring into question, because I have never yet seen a tinge of color suffused over a white flower, which remained unbroken in quality. White chrysanthemums for instance, are apt to be suffused with crimson pink or golden yellow, and not pure pink or pure yellow! But perhaps it is not quite fair to pin ourselves down to a specific color term; pink color seems generally admitted to be present at times in the Niphetos rose; suffice it to say that in my color description of the flower, I ignored the salmon tint because I considered it a blemish and not consistent with the ideal waxy white which is the distinguishing quality of the Niphetos; besides, I believe the accidental pink flush, so named, can have very little influence on the white; and it was the *white* of the flower which it was my intention to describe, less by analysis than by impression.

F. SCHUYLER MATHEWS.

Remontant Roses.

In reply to "An Enquirer," page 256 of the FLORIST for October 20, "remontant" certainly means remounting, but it does not mean climbing. Remounting refers to the sending up of a succession of bloom, which is not done by the purely spring bloomers such as Mme. Plantier. The



BENCH OF TESTOUT ROSES AT W. W. COLES', KOKOMO, IND

roses mentioned are of the true "remon-
tant" class, as are hundreds of others.
Anniston, Ala. F. J. ULBRICHT.

Bench of Testout Roses.

The accompanying illustration is engraved from a photograph of a bench of the new forcing rose Mme. Caroline Testout at Mr. W. W. Coles', Kokomo, Ind. Mr. Coles is very much pleased with the rose and predicts a great future for it. He sends a portion of his cut to the Chicago market and the commission man handling his stock reports that the Testouts are always in lively demand at a considerable advance in price over that received for LaFrance.

California Notes.

One of the new features at the University of California grounds at Berkeley, is the Wild Garden, under the supervision of Prof. E. L. Green, the well-known botanist. It is proposed to collect here, specimens of all the Pacific coast shrubs and small flowering plants and bulbs. Among eschscholtzias there are already several from the California islands that present marked differences from the more common species. Some lilies, calochortuses, irises, trilliums and many other brilliant flower-

ing plants blossomed this year, and next season the garden will be very attractive.

A feature of San Francisco, and the towns of the Bay Shore, is the Japanese gardens, devoted to chrysanthemums, dwarf trees, imported, and a variety of flowers that takes the fancy of their owners. Some firms with a good deal of capital are engaged in chrysanthemum growing, and appear at every flower show to compete for prizes with American florists. Possibly the Japanese have stirred up their rivals, for no other flower has advanced in popular favor so fast, nor have methods of treatment improved so fast in any other department of floriculture. I hear of local chrysanthemum shows, as having taken place during the autumn in fifteen or twenty California towns, which shows the interest left in the subject.

The Japanese lilies all do well here except auratum, which seldom lasts more than one or two seasons. Daffodils, and a large class of spring bulbs which are exactly adapted to the climate, will be exceedingly popular, and extensively planted hereafter. All the narcissi can remain in the ground for years, and increase very fast; they are as easy to grow as potatoes. Some of the irises, and anemones are quite as thrifty here. Crocuses do poorly in many places. Tulips and hyacinths stand

well for several years. The little frezias do finely. That gorgeous summer bulb, the gladiolus, with all its relatives, is another bulb that any one can grow here.

The one great curse of the rich valley gardens, irrigated all summer, full of grass and shade, is that curse of English horticulture—the slug. He comes in millions, and flourishes all winter. The numerous remedies known to gardeners reduce his numbers but temporarily; at the slightest pause he is again innumerable. I have seen every other flower, in a bed of daffodils forty feet square, cut and ruined by slugs, even when ashes and lime had been used faithfully, and dozens of "traps" baited for the enemy.

One of the newer California flowers, adapted by fashion, grown here in great perfection, and breaking into new varieties, is the sweet pea. We sow them, if we are wise, the middle of November, or even earlier, with the late October rains. We plant immense masses for color and fragrance, using selected seed of named varieties, and the flower shows are evidence that every year the sweet pea is more popular.

The Japanese are introducing the plum, cherry, peach, and deciduous magnolias, of their own country, so as to give California a distinctive class of spring blossoms. We already have many of our own fruit trees grown in gardens, or shipped from the orchards to the towns for decoration. The older gardens, too, have some of the dwarf "ornamental peach and plum" trees of the catalogues. But these are double. The Japanese idea is to use their famous and fragrant single tree-flowers, the apricot, cherry and plum in particular. So beautiful and artistic are the effects produced in decoration by these charming things that one can confidently predict a great demand for them, and florists in the California trade would do well to prepare for it. In the Southern States, also, wherever the Japanese persimmon thrives, these lovely spring fruit flowers, the gems of Japanese poetry, will as certainly flourish.

CHARLES H. SHINN.

Society of American Florists.

The annual session of the Executive Committee of the Society of American Florists will be held at St. Louis, Mo., beginning on Tuesday, January 17, 1893.

An important duty devolving upon these gentlemen at this time will be the selection of subjects to be treated on by essayists at the convention in August next. To do this to the general satisfaction of the members becomes each year a more difficult task.

Criticising the committee's work afterwards is an easy matter. Much better however if the critics would assist the committee with suggestions beforehand. Pertinent suggestions from any member of the society are always gladly welcomed and will receive due and courteous consideration.

To secure at the annual convention the greatest amount of good to the greatest number is the object to be striven for and if members of the society will only take interest enough they can assist the Executive Committee very materially in the attainment of this end.

Communications should be addressed to the secretary, Wm. J. Stewart, 67 Bromfield St., Boston, not later than Jan. 10.

Do you want a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.



Our Chrysanthemum Number.

ED. AM. FLORIST:—Before the memory of your splendid chrysanthemum issue has become dim, I would like to put in a few words as to the verdict expressed by the experts on certain varieties.

Marguerite de York, which Mr. Thorpe says is superseded, is one of my earliest yellows, and of such a soft sulphur shade that it combines beautifully with the early light pink sorts. Further it remains good for cutting for seven weeks in a cool house. It should not be dropped.

As to Clarity I must agree with Mr. Craig. Besides being fine it is extremely popular as a cut flower, and makes a grand pot plant.

Mr. H. Cannell with me is superior to Kioto as a commercial variety. The weak stems can be kept upright with a little tying before the buds open.

J. Collins is in constant demand for its bronzy color. It may have but "little merit" as Mr. Thorpe says, but grown in clusters it is fine, and there is nothing we can find to take its place.

John Firth is identical in my hands with M. V. Morel sent out by Peter Henderson in 1889, and is probably the same as M. Viviani-Morel in your list. But Mr. Thorpe says "No value" for John Firth and gives high praise to M. Viviani Morel. Viviani-Morel in your list is described as different in form and color. These two similar names ought to be straightened out. My Viviani-Morel has no "stripes" in it, nor were any exhibited at Madison Square Garden so marked. I would call it rose shaded to cream-white. There is a decided yellow tone in the color. Then I would describe M. V. Morel (or John Firth) as *incurred*, which it is most unquestionably. "Jap." doesn't begin to convey the idea.

Volunteer, Jap., (why are there two of this name?) far from being of "little value" with me is admired and purchased without limit. Its weak stems require close tying before the buds open, as is the case with Mr. H. Cannell.

And Robt. Bottomley, not mentioned in the list! Or has it another name? It is one of our very finest whites for any purpose; makes a superb and stately pot-plant. [Robt. Bottomley is a synonym of Lady Trevor Lawrence. Ed.]

What has "superseded" Yeddo? If there is anything better for a bright fleecy mass of yellow I would like to know of it.

Is there any real distinction between King's Daughter and Mrs. Langtry? I don't see it.

For Thistle, I would say that it makes a pot-plant that sells quick. The flowers are small, but it is so profuse in bloom and dwarf in habit that it takes.

Kingston, N. Y. RICHARD FERRIS.

The reading of the chrysanthemum notes rather amuses me. The opinions expressed are sometimes as diverse as are

the colors and style of the different varieties. On some points they agree, to be sure, as to Ivory being a first class all around white, Wm. Lincoln a yellow, Kioto's weak stem, and the general excellence of Viviani-Morel as a pink.

Many a variety, according to their several opinions is both "good" and "no good"; when even judges disagree I think we may all hold to our own private judgment though "sat down upon" as to some of our favorite sorts.

The trouble is, I think, there are so many varieties that one is liable to get "mixed up," and if one once gets to drifting he is almost sure to be out "at sea."

Some few are properly classed "good all around sorts," others for "exhibition only." Mr. Thorpe now decides that "G. P. R."—one of my own growing—has "no value." When it was first introduced he wrote to a gardening periodical that it was "one of the best of the year." [This does not necessarily affect the opinion expressed in our chrysanthemum number. A host of those now superseded were once "one of the best of the year" in the opinion of men who have since then seen distinct gains over old favorites. And the progress of the chrysanthemum in the last few years has been so rapid that only those making the plant a special study, and with extended opportunities for critical observation of all varieties introduced, and their conduct under varying conditions, can broadly judge of the advances made in special directions.—Ed.] Here is what I say about it: Well grown to single stems it is one of the best varieties in commerce. Lovely color, nothing just like it, as yet, therefore distinct. Habit stout and strong, never lanky, stiff stem with high rounded perfectly double flower, correct shape to date, and big as need be. Those I exhibited at Buffalo were as good as any flowers in the show and received a special award of merit. Grow it well and you will find G. P. R. to be satisfactory.

The same applies to Garnet, W. K. Harris, Thos. Cartledge, Mrs. A. Hardy, Mrs. A. C. Burpee, Mrs. I. C. Price, Rose Queen and others. You can not grow all chrysanthemums in the same way, you must adapt your treatment to the variety, whether grown for exhibition or cut flowers. [We think this is now generally admitted.—Ed.]

The best specimen flowers are grown in solid beds or benches. You can not get quite so good a flower in a box or pot. A mistake is often made in planting out too early. You can not grow as good pot plants out of doors as under glass according to my experience.

Chrysanthemums are like some people, you need to know them well to appreciate their good points. For whatever purpose you intend to use them grow your chrysanthemums the best you know how. A few good plants will pay better and yield larger returns than a larger number of no special value. These are the days that call for select blooms. The same is true as to other flowers.

In christening new aspirants to public favor a name like "Mermad" is more taking than Mrs. A. B. C. Smith. Chrysanthemums are becoming altogether too personal. [Too true.—Ed.]

New varieties that are distinct and good will always be welcome, but don't let us forget tried friends and true because thousands more (to be proved) are knocking loud with a resounding din at our very doors. [And at the same time let us not turn away the really good and desirable advances because they must be

picked out from among others which may be unable to substantiate their claims upon our attention.—Ed.]

GROVE P. RAWSON.

Chrysanthemum Show Finances.

From several cities come reports of exhibitions that were not as successful financially as could be desired. As we in Chicago have just held our first financially successful exhibition after four experiences with deficits of various amounts a recital of our experience may be of value.

The deficit in the receipts of our first exhibition (1887) was something frightful, but that was due to unusual circumstances. The execution of the anarchists occurred during exhibition week, and in view of the mayor's proclamation to citizens to stay in their homes, and a cheerful looking lot of soldiers with drawn sabres parading in front of the army in which the show was held, to guard from the anticipated mob the artillery stored in the rear of the building, it was not strange that visitors to a flower show were not so thick as to crowd on each other's heels. The admission price asked was 50 cents, but we question whether the attendance would have been any larger if a 10 cent fee had been charged. This failure was of course charged entirely to the circumstances above noted.

Preparations were made for a show in 1888 but before the time came round the boys lost their nerve and the next exhibition was deferred till 1889. Then to make absolutely sure of the attendance of the masses the admission price was set at 25 cents. The people came in droves, but the expenses still outran the receipts. The deficit was however but a few hundred dollars and made up without much difficulty.

In 1890 the 25 cent rate of admission again prevailed and by sharp financing receipts and expenditures were made to very nearly balance.

But at all these exhibitions there had been a great deal contributed indirectly by various public spirited members of the club as well as what was given directly. In addition to offering special premiums members had purchased tickets and given them away, and the burden fell heavily on a few, while all gave freely of material as well as labor and time.

The idea was then conceived of devising means to get the wealthy people of the city more directly interested in the matter, and from this sprang the Horticultural Society of Chicago. Though the initial steps were taken by a committee appointed by the Florists' Club the florists kept in the background and took care to elect to the leading offices men of influence and standing in the community rather than horticultural experts. Then the club retired from the exhibition business and allowed the Horticultural Society to wrestle with the problem. A liberal premium list for 1891 was prepared and issued, and the payment of premiums and expenses was made certain by a guarantee fund secured through the influence of members of the Society. Everything seemed propitious. The show was well advertised, the attendance was good, but not heavy enough to meet the increased expense and the guarantors were called upon to make good a deficiency of \$500 (25% of the guarantee fund).

The president of the society then decided that it would be just as easy to get people to give premiums outright as to get them on a guarantee fund and of the premiums



CHRYSANTHEMUM J. H. CLIFFE.

offered in the list for the present year over three-fourths were specials offered by various citizens through good work of the committee appointed to solicit such premiums. It was further decided that there were a certain number of people who would attend the exhibition whether the admission price were 25 cents or twice that amount and that no matter how low the price was put the great mass of people could not be attracted, so the admission price for 1892 was fixed at 50 cents. As a result there were only 477 less admissions at the higher price than at the lower one the year before, and the gate receipts were over \$3,100 as against about \$1,800 for 1891. The total amount of premiums won by exhibitors was \$1,577, of which \$1,146 was paid by donors of special prizes, leaving only \$431 to be paid by the society. This amount added to the other exhibition expenses made the total expense to the society \$1,896.23 which deducted from the total receipts of \$3,236.05 left a balance of \$1,339.82 to be turned into the treasury of the society. Including the special premiums paid in to the society the total receipts were \$4,382.05, and total expenditures \$3,042.23. Deducting the special premiums from the net balance we find that without these having been donated the balance would still have been upon the right side but the amount very small (\$193.82). Of the expenditures exclusive of the premiums paid \$400 was for hall rent, \$500 for advertising, \$140 for music, the rest for printing, labor, materials and other incidentals (\$100 being for vases now in stock). One point in connection with some of the special premiums may be worth notice. Two of the leading daily papers were induced to offer specials of \$100 each, the amount to be taken in advertising space in their columns. So this \$200 was really paid by the society but it was charged to

the advertising fund and appears in the statement as an advertising expense. As the advertising space would have been used anyway (though probably not so liberally in these papers as was the case) the amount was really so much saved and it was not so difficult to secure specials in this way as in cash.

It was believed that the special prizes had also a decided advertising value, and materially increased attendance.

And shall we infer from this that a 50 cent admission fee would have won before had it been established earlier? No. This conclusion would be unsafe. It is probable that even the flower loving public had to be attracted by a low admission fee at first and that the educational influence of several exhibitions was necessary before a sufficient number could be depended upon to pay in the higher fee at the box office. When the exhibitions began many people looked at you rather blankly when you spoke of a "chrysanthemum show." Now every one seems to know at once what is referred to. The exhibitions have now come to be regarded as an annual event to be looked forward to, and last but not least, "society" has stamped its approval upon them.

G. L. G.

Chrysanthemum J. H. Cliffe.

The accompanying illustration is from a photograph of this new pink variety, raised by David Cliffe, Germantown, Pa., and with which he won the prize for best 12 blooms pink, at the last Philadelphia chrysanthemum show. The plate shows the flower much reduced in size, the blooms shown at the exhibition being 9½ inches across. The color is a delicate shade of pink and the blooms last unusually well.

THE LARGEST single flower at the Chicago chrysanthemum show was a bloom

of Flora Hill. It certainly was an immense bloom. But one of the best chrysanthemum growers around Chicago while examining it remarked: "It is evident that the variety can be magnificently done, but though I have lavished all my skill upon it, I never succeed in getting anything but buttons."

Annual Show of the Frederick County (Md.) Floricultural Society.

The first annual show of this society was held at Frederick City, November 9 to 11, and proved an immense success. The large hall in which it was held was beautifully decorated with handsome foliage plants. There were upwards of one thousand exhibits of plants and cut blooms.

This society is composed entirely of amateurs with but three exceptions, these being the professional florists of the city, Messrs. David Groff, Henry Trail and Chas. Herman.

The president is one of the busiest and most prominent physicians of the city, Dr. Wm. H. Baltzell; the vice-president a dry goods merchant, L. E. Mallin; the treasurer the postmaster of the city, H. C. Keeper, and the secretary an active and prominent young merchant, C. E. Kemp. The remainder of the membership is made up of the best people of the town and they are all enthusiastic in their love for flowers and their cultivation.

The first general premium for best chrysanthemum was awarded to D. Groff for a Wm. H. Lincoln, second to Henry Trail for Mermaid; this gentleman also took first premium for cut blooms with three specimens of Vivand-Morel, pronounced by the judge, (a prominent florist of Baltimore) the finest cut bloom he had ever seen. Mr. Trail also exhibited dozens of other varieties of cut blooms, including all the new introductions of '92.

Mr. D. Groff also had a fine exhibit of cut blooms and was awarded second premium in this class. Mr. Herman, while not competing for premiums, had a splendid exhibit of palms, ferns, chrysanthemums, roses, etc.

The main feature of the show, however, was the exhibit of the amateurs, which probably has never been surpassed by any show in this country. They occupied more than half of the large hall and had hundreds of plants on the floor.

The exhibit of the secretary, C. E. Kemp, carried off six cash premiums and a silver cup. Among his plants was a Waban chrysanthemum, standing 5 feet 6 inches tall and spread about 4 feet across, covered with large perfectly formed blooms; a Minnie Wanamaker five feet tall with lots of the lovely white blooms of this prettiest of white chrysanthemums, and a new variety introduced by a local florist, Mr. Herman, several seasons ago, named Mrs. Baltzell. The flower is large and full, of the color of the Duchess of Albany rose, solid color without markings of any kind, and doesn't show a particle of the center. It certainly deserves a place in commerce. The three plants named above were awarded a silver cup given by Mrs. Baltzell for three best plants grown by an amateur. The most remarkable point is that Mr. Kemp grew his entire exhibit in his yard without glass or covering of any kind except 5-cent muslin. All of the amateurs made fine exhibits of plants and blooms. Among those who took premiums were Rhodes Kemp, J. D. Kepner, H. C. Keeper, Sam'l Notnagle, J. R. Marker and others.

Music was furnished by a first class orchestra. The people of the city went wild with delight and crowded the hall day and night. Next year's show will be held at the rink, one of the largest halls in the state, and promises to be the finest show ever held in this country by amateurs. C. E. HERMAN.

[In towns where the florists are not strong enough to get up an exhibition such a society as the above could undoubtedly be started and maintained if the florists would take the initial steps. Make it distinctly a society of amateurs, officered entirely by non-professionals, but with the support and assistance of the florists. Such societies do a vast amount of good and the benefit is reaped mainly by the local florists.—Ed.]



Seasonable Hints.

The condition of a cutting has a great deal to do with its rooting qualities. It is a matter largely of experience to judge when it arrives at the proper stage. It should not be too young when it will be too soft, nor yet too old when it will assume a certain amount of hardness and run to bud even if it roots at all. The nearest we can come to describing the proper condition is to say that the pips will be about right when the flowers are opening on the shoot above. Still there is very considerable latitude. They will often root well before that stage is reached and continue to do so for a considerable period after. However, short, thick set, somewhat hardened cuttings are what is desired, and pulled with a sidewise motion from the stem. The heel without any cutting is mostly in the best possible shape for striking root. Sometimes the heels are too hard, in which case they should be nipped with a sharp knife.

We prefer to take off the pips in the morning before they become soft from the sun. During cloudy weather of course this precaution is unnecessary. The cuttings are dropped into a basket and not allowed to wilt at any time. They should be well sprinkled when set to one side and may be thus kept for a day or two or shipped any reasonable distance if well packed in damp moss. It is better, however, to trim and put into the sand at once. We used to do a good deal of trimming, but have come to regard it as almost unnecessary and a waste of time. Cuttings differ much in this respect. Some will need no trimming whatever, while others, that have a great many leaves, will need considerable around the base. The idea being merely to have them take up less room in the sand. Of course all dead leaves should be removed.

A planed lath makes a good gauge to mark the rows in the sand. A large knife or small pane of glass is a good instrument to run the rows, making them rather deep and only wide enough to receive the cuttings which may be very quickly inserted in the groove thus made. A pointed stick or small dibble answers the purpose just as well but is much slower. The distance apart in the row

will depend on the size of the cutting, about 30 to the foot would seem to be an average. Light cuttings, like Lamborn, may go in thicker than this, while heavy ones, as the Century, should be placed very much thinner. The lath should be well tamped when laid along the row and before marking the rows.

The sun should not be allowed to strike the cuttings in any of these operations. We also deem it of great importance that they should be inserted in *freshly* packed sand. If the sand is made up very long beforehand, we find they never do so well, and often fail entirely from this cause. W. R. SHELMIER.

Avondale, Pa.

New Carnations.

The Committee of the American Carnation Society report the registration of the following:

JOHN K. RENERE.—Variegated. Hinze's white fertilized with Duke of Orange.

WM. PIERCE SR.—Same color as Aurora, but said to be a stronger grower and a larger flower. Grace Wilder fertilized with Hinze's White.

JOSIAH EATON, JR.—Very large white. Hinze's White fertilized with McGowan.

PINK BEAUTY.—Lighter in color than Wm. Pierce. Portia fertilized with L. L. Lamborn.

There are a number of new varieties being named this season and the Nomenclature Committee respectfully request that the names be sent in promptly with a short description of their general characteristics so that they can be properly entered for the report at the meeting of the American Carnation Society, in February. Introducers and originators will consult their own interests by assisting us in every possible way.

ALBERT M. HERR,

Lancaster, Pa. Sec'y Committee.

Carnation Plants in Open Ground.

Mr. E. Gilliam, of this city, grows his carnations in the open ground through the summer in baskets, about four inches in diameter, made from common 2-inch mesh wire fencing. These baskets are made by cutting the fencing into strips about 4 by 12 inches, bringing the ends together and folding one end in. The small plants are planted out in these baskets in the spring, and in fall the plant is lifted in the basket and transferred to the greenhouse bench and placed in position without attempting to remove the plant from the basket. The plant thus has all the advantages of being bedded out and can always be transplanted with a good ball of soil. Where the soil is very loose, a smaller mesh than that above noted should be used.

W. D. BUCHANAN.

Nashville, Tenn.

Carnation Disease.

We are in receipt of a communication from a carnation grower, stating that a lot of "Golden Triumph" recently purchased had, soon after planting, proved to be very badly affected with carnation disease. Our correspondent claims to have never had a trace of the disease on his place before, and is desirous to hear, through the columns of the FLORIST, whether other growers have found any indications that the variety above named is specially liable to infection.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

An Admissible Symbolic Arrangement.

Our illustration shows a floral arrangement prepared for the funeral of a gentleman much addicted to rod and gun, and it is a welcome relief from the usual hideousness of symbolic designs. It shows simply a bit of nature; the rod and gun, though there, is not insisted upon as the chief part of the design. As a rule we strongly object to so-called symbolism in funeral designs; they are apt to be execrably tasteless both in thought and execution. The present arrangement shows great taste in arrangement, though we should like it better with the bird omitted.

The arrangement illustrated was the work of Messrs. C. B. Whitnall & Co., Milwaukee, to whom we are indebted for the photograph.

Philadelphia.

The December meeting of the Florists Club held last Tuesday evening was largely attended, a number of out of town members and visitors being present.

Two very attractive features on the programme, which no doubt served to bring out a full house, were, first a lecture to be given by Mr. Wm. E. Meehan, the botanist of the Peary relief expedition, describing the Flora of Greenland, illustrated by views taken by himself. Mr. Meehan was however unfortunately not able to keep his engagement as that evening about six o'clock a fire broke out in the Public Ledger building completely gutting the structure, and he being one of the editorial staff was obliged to stay and get out the paper. It is hoped to have Mr. Meehan's lecture at a future meeting.

The other and more the less pleasing feature was an exhibition of new roses by Strauss & Co., of Washington. There were nine large vases filled with choice blooms. Three were of the new white rose, Kaiserin Augusta Victoria, in different stages from buds to full blown flowers. This new variety is likely to make its mark; it is one which is not only spoken well of, but it can be seen on exhibition tables, which is more than can be said of some of the much written about kinds. Mr. Durfee, who was present, described it as a strong grower with none of the small twiggy growth seen sometimes on the Bride. He thought it was not a pure tea. In answer to a question he said that the grafted plants were the strongest growers but that their own roots produced the best flowers. The specimen blooms shown were very fine, some that had been cut a week back were very large and wide open but did not seem at all faded, resembling somewhat a large Capt. Christy in shape, but creamy white in color.

Another new one, Christine de Nove, was somewhat like Contier in color although not so pure, there seeming to be light and dark shades running through it. In shape it would seem to be more like Wootton, being fully as double. Mr. Durfee described it as having heavy, leathery leaves, and a stronger grower than Contier, not dropping its foliage as that variety does and not at all subject to black spot. It grows best in a temperature of 55° to 58°.

Some vases of white LaFrance were also exhibited, which showed up very well. It was about the color of daybreak carnation. Mr. Durfee said he could not sell the old LaFrance, but had no trouble to get \$20 a hundred wholesale for the new one. He said however that his prices were, like most growers subject to change,



AN ADMISSIBLE SYMBOLIC ARRANGEMENT.

which remark seemed to catch the hustlers present.

There were also some fine specimens of Wootton and Mme. Pierre Guillot. None of the flowers Mr. Durfee said were specially grown but just out of their regular stock, as they aimed for quantity rather than quality.

The Dailladonze Brothers, who had come to Philadelphia to inspect the house of Edna Craig carnation, of which by the way there was a vase of very fine flowers on exhibition, were called on to give their views on carnations and chrysanthemums. Mr. Dailladonze said that he couldn't tell Philadelphians anything about chrysanthemums, and as for carnations he said that the Edna Craig was the finest thing he had seen yet. As to the best paying variety, that largely depended on supply and demand. The prices being regulated entirely that way in New York. There were too many pinks about now and other colors brought more money. A

man who would bring out a good yellow would undoubtedly have a prize, as there was a great demand for that color. At present Daybreak brings almost twice as much money as any other variety. Hinze's White is the best paying white one with them. Silver Spray next. American Flag and Tidal Wave were also good sellers.

Mr. Dillon of Bloomsburg thought the best carnations with him were Lamborn for white, being most prolific and brought best price. Mr. Battles said Daybreak, McGowan, and Lamborn, were the favorites with his customers. Ten Wilders to any other pink was the proportion Mr. Cartledge said they sold, and Hinze's White and Lamborn were the best whites and Portia the favorite red. John Westcott said that Edna Craig must be the best commercial variety as he understood the entire crop had been sold for \$5 a hundred, which was about three times the price of other varieties.

Mr. Lonsdale, of Committee on Insect-

icides, reported having tried Stott's Kill-might on many plants and found it good. The sprayer he found excellent but thought the price too high, and that something on the same principle but cheaper would be more generally used.

The following gentlemen were elected to membership: Alfred D. Hogg, Saml. V. Smith, Jos. N. Smith, R. Hantzsh, John Guest, Geo. W. Hays, of Philadelphia, and L. H. Clements of Doylestown. K.

Toronto.

The very cold weather has departed, but it has been very dull and unless we get some sun before Christmas roses are going to be off color at that time as well as a short crop.

Stores have already commenced to have a Christmas look about them; chrysanthemums still hang on and I saw some fine blooms out at Manton's greenhouses

recently that had been planted late on benches. The Mantons grow a lot of a semi-double old gold, very free flowering and late, it sells on sight. It is a seedling Tom picked up in the city.

As the time for the annual meeting draws near the election excitement waxes warmer and a lively time may be looked for on the evening of the 20th, as pretty near the whole club (now 130 strong) is likely to turn out.

The World's Fair committee meets again next week and will probably recommend a man to the Commission for Ontario for the appointment of Superintendent of the Horticultural Department of Ontario's exhibit. Whoever is appointed will have a great responsibility on his shoulders, as there are some plants in the exhibit which could hardly be replaced. E.

New York.

There is no slacking up in the quantity of roses being piled into the market. After a round of the principal commission houses about 9 a. m. on any day, the thought uppermost in one's mind is, what in the world becomes of all the roses coming into New York? To one who has never seen it, it is impossible to convey any adequate idea of the enormous quantity. Yet they seem to melt away and disappear, often at poor prices, but they go.

One thing worthy of note at the present time is that the big No. 1 American Beauties, with two to four foot stems, which everybody wanted a short time ago, hang fire badly since the high prices went into effect, and the No. 2's and No. 3's even are in best demand. In all cases a well formed bud and good bright color are required, but when it comes to pay \$9 per dozen at wholesale for extra specimen blooms, there is a strong inclination to let the big fellows alone. The secret of it all is probably, that the high prices have been put on too soon. Big society events, and incidentally, big prices for high grade flowers, are not to be looked for till after the holidays.

The "green pink" monstrosity seems to die hard. The following funny message was received by one of the large commission houses recently: "Can you send us by mail Monday a. m., three dozen green pinks, or the receipt for making green pinks?" And the 17th of March is still three months away!

There have been a few early forced hybrid roses coming in for a couple of weeks. Magna Charta to Young Bros., and Anna Alexieff to Theo. Rochrs. Harrisii lilies are to be had in limited quantities already.

Jas. Weir & Sons give a high endorsement to "Killarney," which they say has been successful in killing the dreaded grubs on smilax and asparagus.

Alfred Dimmock sailed for England on Dec. 10, having been summoned there by news of the dangerous illness of his mother.

The monthly meeting of the New York Florists' Club was held at the club rooms on Monday, Dec. 12, p. m., and there was a full attendance. The committee on annual dinner reported that Jan. 7 had been selected as the date. On motion the initiation fee was raised to \$5 and the annual dues to \$6.

On Monday, December 19, there will be a special entertainment at the club room on invitation of Mr. John Young, and on successive Mondays by other members. Several members subscribed toward a

fund of \$500 to start a library at the club rooms.

Mr. C. W. Ward talked on carnations, and said he was opposed to lifting carnations on account of injury to roots. He spoke in praise of Fostite and Bordeaux mixture as remedies for diseases.

Eleven new members were admitted to the club.

Boston.

The quantity of carnations coming in now is unprecedented for this time of the year. They are the great stock in trade of the street fakirs who display them in big showy heaps of white, pink and scarlet. Prices hold on very well notwithstanding the evident overstock, averaging about \$1.50 per 100 for good long stemmed stock. Excepting for extra fancy blooms or scarce varieties such as Buttercup and Daybreak it does not seem likely that prices on carnations can be advanced much for the holidays, for there will be a very heavy supply, and those who are unwise enough to hold back their stock till the last day before Christmas in anticipation of high prices will be liable to learn an unwelcome lesson.

Of roses the supply is not large and there seems to be a fair demand for what is being received. Extra fancy varieties, American Beauty particularly, are scarce and most of the larger dealers are receiving daily shipments from New York city.

Holly is arriving in good shape. The prospect is for a very large demand for Christmas. Sample lots of southern mistletoe look fine and are well berried. One shipper with more ingenuity than business experience sent a little sample bunch carefully fastened and cleated inside a keg, the keg being then stowed inside of a barrel and packed all around with hay. Freight charges \$1.50.

The executive committee of the Mass. Horticultural Society recommends an appropriation for prizes for cut flowers in 1893 of \$2,400, an increase of \$200 over the appropriation for 1892.

On December 9 and 10 there was a very interesting exhibition of children's herbariums of native flowers and ferns, at Horticultural Hall. It is to be regretted that the exhibition was not more extensively advertised, for it was exceedingly creditable and some of the collections very complete. Every species of native ferns was shown and the great majority of the wild flowers of New England. The preparing and mounting had been very carefully done, and the botanical as well as the common name in most instances given. Such work as this can not be encouraged too much; it is of infinitely more value to the children than the growing of geraniums and chrysanthemums from "slips," which seems to be the sum total of the ambitions of most children's exhibition committees.

Washington.

The past week marked the formal opening of society's gay season in Washington. The convening of Congress calls many outside of that circle to our city who are leaders in society, and while the regular social opening does not begin until January 1st, many of the members of the diplomatic corps, cabinet officers, Senators and members of the House of Representatives have their regular reception days and their palatial homes are open to such friends as may call. These weekly receptions are usually held in the afternoon from 2 to 6 o'clock, and many

have their houses handsomely decorated with plants and flowers.

This opening of the season is hailed with delight by our florists, as they look upon the opening day of Congress as one of the harvest days of the year. The convening of Congress last Monday brought scores of orders to all the city florists, from the many admirers of our statesmen, for designs of various kinds to be placed upon the desks of their friend or favored law-maker, and many handsome pieces were to be seen upon the desks of both senators and members. The pieces outnumbered those of any previous opening day, and the flowers were, as a rule, of finer quality. Between 11 and 12 o'clock wagons from each of the florists' could be seen hurrying toward the Capitol, filled with designs of every description. Noticeable among the wagons, was that of C. Strauss & Co., which was out for the first time; it is a novel wagon, or rather a greenhouse on wheels. From the bed up it is composed of glass entirely. It is 8 feet long, 4 feet 9 inches wide, and 5 feet 6 inches high, drawn by two horses, with driver perched upon a seat arranged at the front gable-end, while the delivery boy is provided with a seat inside, with the plants or flowers as the case may be. Our enterprising friend, Mr. Benj. Durfee, of the firm, planned this wagon, both as an advertising medium, and as a means of protecting the goods while being delivered during severe weather. I understand it is to have several small electric lights arranged in it to display the plants and flowers, as well as to attract attention when delivering after dark. We await the result of this novel idea.

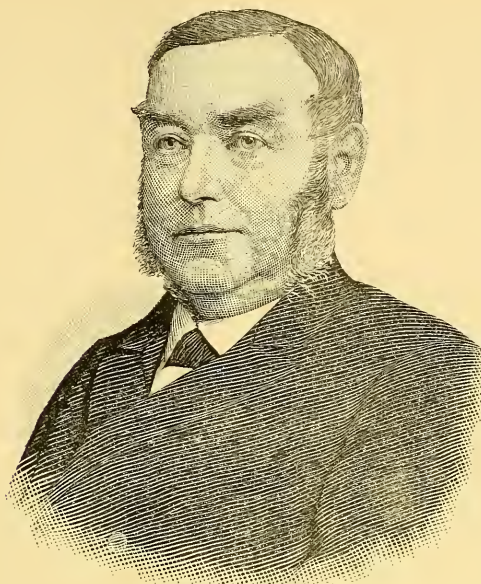
The chrysanthemum exhibition of the Washington Florist Club was not a success financially; but the boys were as much pleased as if it had been. The financial failure can be attributed to several causes. Street transportation was disarranged, preventing many from coming; the weather was unfavorable the first day and evening; and our people are used to such fine displays in our large flower stores which are of course free. The exhibition was very good indeed, and much enjoyed by those who did attend. The roses exhibited were excellent, and deserves special mention. The Beauties grown and exhibited by N. Studer, were as near perfect as could be. Clark Bros', LaFrance were superb, and attracted the attention of those capable of judging; size and color were excellent. A special prize was awarded Robert Bowdler for his superb Niphetos. The same honor was conferred upon E. Miller for his grand Gontiers. They both deserve it, for their roses were of the finest. Fields Bro's, Kaiserin and LaFrance were much admired.

Chrysanthemums have about gone, and the demand for roses, carnations, violets and lily of the valley is increasing accordingly. The markets are well supplied with roses and carnations of good quality, demanding prices satisfactory to the growers. Violets are scarce and bringing good prices. Beauties are selling at from \$9 to \$10.50 per dozen. Perles, Brides, Hoste and Gontiers bring from \$1 to \$3 per dozen.

C. LESLIE REYNOLDS.

Chicago.

Although there is no marked change in the market at present, we may confidently predict a decided increase in prices within a few days. Flowers of all kinds are ex-



Geo. W. Childs

tremely scarce, the supply being below the demand in all classes. Among roses Beauty leads, as usual; O. P. Bassett is sending in some extremely good ones. All red roses are greatly in demand. There is a very large demand for carnations, and these flowers are very scarce, and likely to remain so. Daybreak is one of the best fancies now coming in, and it is bought up eagerly on sight. Flaked or striped carnations do not take at all well, the self colors being preferred. Yellows are very rarely seen, being little grown in this locality. Occasionally a bunch of Buttercups comes in, but this flower is a rarity. It is an opinion generally expressed that the taste for carnations is greatly increasing among Chicago buyers.

Roman hyacinths are still a drug; they are very plentiful. Paper white narcissus continues to be practically unsalable. Violets are still very scarce, and are in immense demand. Some single violets from the south are sent in, but they are poor, and it is very hard to find any sale for them when it is possible to get the double ones. Very good Marie Louise are in, but the quantity is scarce. Callas are coming in more freely, and are generally good; Lilium longiflorum or Harliss is not to be seen, nor is valley.

Smilax is plentiful, quite sufficient for the demand. There is little asparagus in, but it is very little grown here. If the florists could be sure of a supply they would use it freely in preference to smilax but as it is there is no certain supply, except from the east. It seems probable that a good crop of plumosus would pay some local grower.

The last meeting of the Florist Club was well attended and a very attractive program of future work was prepared.

Among the essays promised for meetings in the near future are "Notes on the work of the Floricultural Division of the World's Columbian Exposition," by H. H. Hindshaw; "Primulas," by James Ivera Donlan; "Floriculture in Japan," by H. Izawa, a Japanese gentleman connected with the horticultural exhibit of Japan at the Exposition, and who was present at the meeting. As the date for the next regular meeting of the club is the 22nd inst., when every one will be very busy with holiday work, and the attendance is likely to be light, the series of essays will begin with the meeting to be held January 12. Other promised essays are "The Workings of Cut Flower Exchanges," by T. F. Keenan, manager of the Chicago Cut Flower Exchange and "How to extend the influence of Florists' Clubs," by G. L. Grant. At the "adjourned session" there were ten players on each side and honors were evenly divided. No phenomenal scores were made and dark horses were numerous. Our Japanese visitor took a hand in the game, and delivered some curved balls in a way that convinced on-lookers the game was not unknown to the gardeners of the Orient.

The firm of Kennicott Bros., wholesale commission florists, has been incorporated, with a capital stock of \$10,000. Flint says its fashionable now-a-days to be a corporation and he proposes to keep up with the procession.

The W. D. Allen Floral Co. have gone out of business, and the Lake City Floral Co. have discontinued their city store.

The wife of Charles Strombach, head-gardener at Lincoln Park, died recently. Mr. Strombach is very popular with the

trade in this city and much sympathy is expressed for him in his bereavement by his many friends.

World's Fair Notes.

December 11th a meeting of the employees of the horticultural department was held in the dome of the Horticultural Hall for the purpose of organizing a floricultural society. A set of rules was adopted, and it was unanimously agreed upon to call the new society the World's Fair Floricultural Society. Chief Thorpe was elected president; H. M. Hughes, vice-president; Joseph Springs, treasurer; James I. Donlan secretary. Meetings will be held weekly, at which essays will be read and object lessons given. The study of plants sent to the World's Fair, and the advancement of horticultural arts in general, will receive special attention.

Mr. H. H. Hindshaw has resigned his position as assistant to Mr. Thorpe in the Bureau of Floriculture. Mr. Hindshaw is a botanist of marked ability and the Bureau loses a very useful member of its staff. He will accept a place with the Academy of Sciences, which is soon to have a handsome building erected in Lincoln Park.

George W. Childs.

We present herewith a portrait of Mr. George W. Childs, of Philadelphia, recently re-elected to the presidency of the Pennsylvania Horticultural Society. His hospitality to the Society of American Florists on the occasion of the Philadelphia convention, when he entertained the entire body in a most lavish manner at Wootton, his beautiful country place at Bryn Mawr, will long be remembered by those who were fortunate enough to be present on that occasion, and evidenced Mr. Childs' kindly interest in those who practice the art of horticulture as well as the art itself.

Employer and Employee.

Since the publication of the notes upon the relation of employer and employee in recent numbers of the FLORIST we have received quite a number of complaints from both employers and employee regarding the failure of one or the other to keep verbal agreements made. We have several times called the attention of our readers to the absolute necessity of a written contract covering such agreements, and in order to remove any excuse for failure to make use of such contracts we present herewith a form that has been prepared for us by an expert attorney, at our request, for the use of the readers of the FLORIST.

We are satisfied that the use of such a contract would do away with a great deal of misunderstanding and consequent hard feeling. The great majority of these differences are unquestionably due to a misunderstanding on the part of either one or the other of the parties to the verbal contract. If there is such misunderstanding it is quickly removed when the matter is reduced to writing. We would advise employees to proceed as follows: After talking over the matter with the party who proposes to employ you restate the case to him as you understand it and ask if you have understood the points correctly. If the reply is in the affirmative then suggest that to prevent any possibility of future misunderstandings and lapses of memory the accompanying form of contract be filled out, and matters not provided for in the body of the contract endorsed on its back, and

the same signed by each of the contracting parties, the contract to be made in duplicate, one to remain in possession of the employer and one to be held by the employee. If the party refuses to sign such a contract it may be taken as pretty fair evidence that he desires to retain a loop-hole through which he may crawl out of promises he may have made verbally. If the employee demand that the contract be broken only after a stipulated number of days notice have been given on the part of the employer, then he should be willing to bind himself to give an equal length of notice to his employer. And as the employer is in the great majority of cases a man of much greater financial responsibility than the employee the latter should be willing to allow the former to hold back his wages covering the period of notice required, to insure himself against the failure of employee to fulfil his share of the contract as regards notice.

Certainly both the employer and employee stand upon a better footing with such a contract in writing between them, and its value lies not so much in being able to enforce conditions by legal process, as in making the understanding so perfect and complete that no differences are likely to arise afterward. It is offered to our readers as a preventive rather than a cure of the troubles regarding which we have received so many complaints of late.

THIS AGREEMENT, made this.....day of.....A. D. 189....., between.....party of the first part (employer), and.....party of the second part (employee), both of the city of.....in the County of.....and State of.....

WITNESSETH, that the said.....party of the second part covenants and agrees faithfully, truly and diligently to discharge the duties of foreman of the greenhouses of said party of the first part, and to give the best services of which he is capable to said party of the first part during usual business hours, and such other reasonable time as the needs of the business may urgently demand, unless terminated by either party as herein agreed.

In consideration of which service so to be performed the said.....party of the first part, covenants and agrees to pay to the said.....party of the second part the sum of Fifty (\$50.) Dollars per month, and in addition thereto, such board as is to be had at a price not to exceed Five (\$5.) dollars per week.

And it is also agreed that this contract may be terminated at any time by either party by giving to the other one month's notice, provided only that the party of the first part reserves the privilege of terminating this contract without said month's notice by paying to said party of the second part Fifty (\$50.) Dollars in money in lieu of said notice, and to this the said party of the second part hereby agrees.

And it is further agreed that the salary shall be paid by the said party of the first part to said party of the second part at the end of each month for the month immediately preceding said month.

It is further agreed that in case said second party shall leave the employment of said first party before thirty day's shall expire after having given notice as herein agreed, or shall leave without giving said thirty days' notice, then said second party shall pay to said first party the amount of one month's wages, and said first party is authorized to retain that

amount from any moneys due said second party hereunder.

It is understood and agreed between the aforesaid parties that the death of either of them shall thereupon terminate this agreement, and all moneys then earned to said date shall be paid, and no notice shall be required.

IN WITNESS WHEREOF, the parties of these presents have hereunto set their hands and seals, the day and year first above written.

.....(Seal)
.....(Seal)

Spring Bulbs in the South.

In the notes on spring bulbs on page 268 of the FLORIST for October 20, it is stated that tulips, crocus and hyacinths should be planted in September or October. This may do for the north but in the south November is much better, as earlier planted bulbs came up too soon and are apt to thus get killed. F. J. ULBRICHT.

ANNISTON, ALA.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By Canadian florist, age 21, well up in all kinds of greenhouse work, both plants and cut flowers; not afraid of work; reference given. Apply CANADIAN, care Am. Florist.

SITUATION WANTED—As florist or propagator, growing new carnations, tulips, ferns and other soft plants; single, age 32, 17 years' experience. Address CHARLES HANDEL, 687 70th St., Parkside, Chicago.

SITUATION WANTED—By a young florist, age 29, 5 years' experience in violet, carnation, bulb forcing and general bedding plants and cut flower grower; good reference. Address: No. 16 Vinings Ave., Newark, N. J.

SITUATION WANTED—Or partnership, either in S store or greenhouses, by a thoroughly practical business florist with large acquaintance and trade. Vicinity of Chicago preferred. Address WILLIAMS, care Chicago Floral Co., 28 Grand Boulevard, Chicago.

SITUATION WANTED—By respectable young man with excellent references, thoroughly experienced in forcing of roses, bulbs, cut flowers and growing of general stock; good hand at making up, well capable of managing commercial place or department. Florida preferred. Address PROSPERITY, care American Florist.

SITUATION WANTED—As manager or foreman of S public grounds or large commercial place. Have S experience in the leading establishments in Europe and this country. Will be open for engagement about first of January or February. Address with particulars LEITCH, 1511 Grand Michigan State Asylum, Ionia, Mich.

WANTED—Some good stock plants of Fuchsia, Pichumbens. Address, FLOREST, care American Florist.

WANTED—A young man, with some experience, to work in greenhouses, State wages, including G. O. S. BELLESEA, Middletown, N. Y.

WANTED—Young, experienced man in mail plant trade, quick, industrious, ambitious. Address, with all customary particulars and references, VAUGHAN S SEED STORE, Chicago.

WANTED—One second hand hot water boiler, in good condition, capable of heating 2,000 square feet of glass. (Heating No. 5 or No. 16 preferred.) Send lowest cash price to JACOB DUERR, Geneva, Ill.

WANTED—A good, all-round man—one who can make up floral work, decorate and grow roses, etc. A good, steady position for the right man. State age and wages expected, with board. References required. W. W. COLES, Kokomo, Ind.

FOR SALE—Florist business, 5 houses, 10,000 square feet of glass, fine stock, good location, good market, best of reason for selling. Address B. W. SMITH, West Haven, Conn.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1898. Address B. care J. C. VAUGHAN, Box 688, Chicago, Ill.

HELD AT PRIVATE SALE.

Property of forty-five acres, elegant improvements and conveniently located, a well paying business established in Plants, Bulbs, Seeds, Cuttings, five greenhouses 100x21 feet, heated by hot water, and everything in the best of condition. For particulars write

JOHN J. GHEEN, West Chester, Chester Co., Pa.

CUT FLOWERS WANTED. Consignments of Cut Flowers wanted by old established florist, in principal market in Philadelphia. Best prices; weekly detailed statement, and prompt monthly cash payment. Best references. W. G. KILKLAND & HCO, Terminal Market, Philadelphia, Pa.

FOR SALE.

Ten greenhouses, about 15,000 square feet of glass, with two acres of land, and stock for sale very cheap. The houses are in good condition, situated in one of New England's best localities, with a large and extra good home market; heated by a first-class steam plant, cost \$1200, pots and implements. This is a fine opportunity for one wishing to buy an Established Business, as the property is in good condition, ready for the coming season, and will be sold, as the present owner has other interests to look after.

For further particulars apply to

N. D. WINTER,
No. 5 Elm Street, Springfield, Mass.

FOR SALE.

AN OLD ESTABLISHED FLORIST BUSINESS at Dorchester, Mass., comprising 20,000 feet of land centrally located, on which are:

- 1 House 70x18 filled with Carnations.
- 1 House 70x16 filled with Roses.
- 1 House 70x11 filled with Violets.
- 1 House 70x10 filled with Violets.
- 1 Sash Pit 70x7 filled with Violets.
- 1 Dwelling House, seven rooms.

Plants in good condition and houses in good repair. Price, \$6,000.

Address

N. F. MCCARTHY & CO.,

1 Music Hall Place, BOSTON, MASS.

FOR SALE.

One of the best equipped and arranged Florist stores in upper New York City. Conservatory attached. Must be seen to be appreciated. References if necessary. Address.

64 W. 125th St., NEW YORK CITY.

Now is the time to get your Stock for Winter Trade.

ORCHIDS,

PALMS,



FERNS.

The largest and finest stock of Palms, Stove and Potage Plants in the country.

FRESH DRACÆNA CANES, all sorts. **LILIIUM HARRISII** and **BULBS** for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

ORCHIDS.

The Finest Stock in the World. **SANDER'S,** ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 200 Greenwich Street, New York City.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ANOTHER SPECIAL NUMBER.

On January 19 we shall take much pleasure in presenting to our readers another grand special number. It will be devoted to the carnation. The carnation has been making rapid strides in recent years. Some of our brainiest men are now giving their whole time and thought to its improvement, and fashion has accepted it as a favorite second only to the rose. The FLORIST is glad to take due cognizance of this fact and proposes to give the "Divine Flower" that recognition and prominence to which its present position entitles it. The reading columns will comprise valuable contributions from our most successful practical carnationists and these articles will be beautifully illustrated. We shall spare no pains to make this the most notable of our successful series of special numbers and a full and reliable record of the achievements of our carnation growers up to date. Advertisers have learned that no medium for reaching the whole trade has ever been given them equal to that furnished in these special numbers of the AMERICAN FLORIST. This one will be no exception to the rule. Those having carnations to offer or new seedlings to introduce are particularly reminded of the rare opportunity here offered. No advance in price from our regular advertising rates.

OUR TRADE DIRECTORY.

We shall issue about February 1, 1893, a supplementary sheet embodying all the corrections in addresses and additions to the list of those engaged in the florist, nursery or seed trade, of which we can obtain information. At the present rate of progress the number of additions and changes in such a list in the course of 12 months is very large. Also in the compiling of such a work as the directory some errors are unavoidable. Such as are noted we shall correct, and we would respectfully ask our subscribers to aid us by calling our attention to such inaccuracies or omissions as may have come to their notice.

The supplementary sheet will be of the same size and form as the leaves of the directory and will be distributed gratuitously to all who have purchased copies of the 1892 edition.

You CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

SMITH, The Florist,
GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL,
77 S. 7th Street, MINNEAPOLIS, MINN.

Palms, Ferns, Rare or Fancy Foliage Plants;

ORCHIDS AND GYPRIPEDUMS IN FLOWER;

FOR HOLIDAY TRADE.

* * * * *

Send in your list of wants, or call and examine
our unsurpassed stock of these plants.

PITCHER & MANDA,

UNITED STATES NURSERIES,

SHORT HILLS, N. J.**T. J. CORBREY & CO.****WHOLESALE AND COMMISSION FLORISTS,****45 LAKE STREET,****CHICAGO.**

(IN CHICAGO CUT FLOWER EXCHANGE.)

Asparagus Plumosus Nanus.CUT STRINGS: 6 to 8 feet long, 50 cents each.
10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.**C. A. KUEHN,**

(Successor to ELLISON & KUEHN),

* * * * * **WHOLESALE** * * * * ***FLORIST,**

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

H. L. SUNDERBRUCH,**WHOLESALE FLORIST**

4TH & WALNUT STREETS,

Cincinnati, O.**DAN'L B. LONG,**
COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,**LONG'S FLORISTS' PHOTOGRAPHS.**

Lists, Terms, &c. on application.

ALWAYS mention the AMERICAN FLORIST
when writing to advertisers.

THE

**Chicago Cut Flower
EXCHANGE.**

Incorporated. Capital Stock, \$10,000.

No. 45 LAKE STREET,

Is now open for business. A number of prominent growers have secured space in the Exchange, and a choice and varied stock can be found there at all times to select from.

There are also Commission men in the Exchange who will receive consignments and fill orders promptly.

The Exchange has a limited amount of Table space to rent. Also choice advertising spaces on the walls at a reasonable rate per year. This is an excellent method of advertising; reaching the buyers of Chicago and vicinity, as well as visitors from a distance.

For terms, etc., address

THE MANAGER OF
THE CHICAGO CUT FLOWER EXCHANGE,
No. 45 Lake Street, Chicago.

Cut Flowers.**ROSES, CARNATIONS AND
CHRYSANTHEMUMS.**

We can fill orders for above on short notice; Adams,
American, United States and Wells Fargo Ex-
press Co.'s. Give us a trial order.

GEO. A. KUHLE, Pekin, Ill.

When writing to any of the advertisers
on this page please mention the AMERICAN
FLORIST.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.,
 Wholesale Dealers in
Cut Flowers
 AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

We are now located at our new quarters in Chicago Cut Flower Exchange, and are prepared to fill orders in very best manner. Give us a trial order and see how we please you.

M. OLSON, —*—
Wholesale FLORIST,
 66 WABASH AVENUE,
 CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
 PHILADELPHIA.
 Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
 38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 13.	
Roses, Goutiers, Niphotos.....	2.00@ 3.00
" Waterville, Cusin, Perle, Sunset.....	3.00@ 6.00
" Mernets, Brides.....	3.00@ 6.00
" La France.....	10.00@ 15.00
" Meteor.....	10.00@ 15.00
" Beauty.....	20.00@ 25.00
Carnations.....	1.50@ 2.50
Violets.....	2.00@ 3.00
Valley.....	2.00@ 4.00
Roman hyacinths.....	1.50@ 2.50
Mignonette.....	1.00@ 10.00
Cypripedium.....	15.00@ 20.00
" Beauty.....	20.00@ 30.00
Smilax.....	30.00
Asparagus.....	50.00
Adiantum.....	1.00

BOSTON, Dec. 13.	
Roses, Niphotos, Goutiers.....	3.00@ 4.00
" Brides, Mernets, La France.....	4.00@ 8.00
" Perle, Sunset, Wootton.....	5.00@ 8.00
" Meteor.....	10.00@ 15.00
" Beauty.....	20.00@ 30.00
Carnations.....	1.50@ 2.00
Valley.....	2.00@ 4.00
Hyacinths.....	2.00@ 3.00
Narcissus.....	2.00@ 4.00
Violets.....	1.25@ 1.75
Mignonette.....	1.50@ 5.00
Callas.....	12.00
Bourvardia.....	1.50@ 2.00
Stevia, pansies.....	1.00
Chrysanthemums.....	17.00@ 25.00
".....	12.50
Adiantum.....	1.00
Asparagus.....	50.00

PHILADELPHIA, Dec. 13.	
Roses, Beauties.....	30.00@ 40.00
" Belles.....	50.00
" Laing.....	25.00
" La France.....	6.00@ 8.00
" Mernets, Brides.....	4.00
" Cusin, Waterville, Perle.....	4.00
" Wootton, Perle, Goutiers.....	4.00
" Meteor.....	8.00
Valley.....	5.00@ 6.00
Romans.....	4.00
Narcissus.....	4.00
Violets, double.....	1.00
" single (bunches).....	5.00
Carnations.....	1.50
Hellotrops.....	1.50
Bourvardia.....	1.50
Adiantum.....	1.00
Smilax.....	15.00@ 20.00

CHICAGO, Dec. 13.	
Roses, Goutiers.....	3.00@ 4.00
" Perle, Niphotos.....	3.00@ 6.00
" Mernets, La France, Brides, Albany.....	4.00@ 7.00
" Wootton, Bennett, Meteor.....	4.00@ 7.00
" Beauty.....	15.00@ 25.00
Carnations, short.....	1.00@ 1.25
" long.....	1.50@ 2.50
Smilax.....	2.00@ 3.00
Romans.....	4.00@ 5.00
Violets.....	1.00@ 1.50
Adiantum.....	1.00@ 1.25
Smilax.....	15.00@ 22.00

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
 —WHOLESALE—
 67 Bromfield Street, BOSTON, MASS.
 Mention American Florist.

N. F. McCARTHY & CO.
Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
 —WHOLESALE—
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
 Formerly 115 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
 117 W. 30th St., NEW YORK.

The Oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S,
 —WHOLESALE—
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
 NEW YORK.

MICHAEL A. HART,
Wholesale and Commission Florist
 113 WEST 30TH STREET,
 NEW YORK.

The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
 NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.
J. E. BRUNSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

On Re Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

CONCERNING present price of onion seed, Mr. Wm. Meggatt writes from Wethersfield, Conn., under date of December 9th as follows: "It is a mistake to think that the Red Wethersfield is weaker. While red onion has been offered more freely than yellows, it is not because they have more of it but because it is in smaller lots in more hands. There is no more red in proportion than yellow. I think this will be proven as the season advances. Allow me to ask where two or three thousand pounds of red onion can be bought of any one man, and, remember that it is very early in the season to put this question. There are only two houses in the whole seed trade who can furnish a ton of red at \$1.50 per pound, and if Yellow Danvers is worth \$1.50, Globe Danvers \$1.75, red is better property than either at \$1.50. Those parties who are offering red for less than \$1.50 and Danvers Globe for less than \$2.00 will be paying more for the same seed before March is out. There is no surplus stock and each and all will be wanted for any price."

CHRISTMAS.

CUT BLOOMS OF

CYPRIPEDIUM INSIGNE, . . . \$3.00 per Doz.
CHIRYANTHEMUMS, 1st size, . . . 1.25
" 2nd size, . . . 1.00

Address **J. G. Burrow,**
FISHKILL, N. Y.

KENTIAS { BELMOREANA, FORSTERIANA,

\$3.00 to \$15.00 each.

John Burton,
CHESTNUT HILL, PHILADELPHIA, PA.

	Per 100	Per 3000
Choice Imported Lily of the Valley Pips.....	\$1 00	\$ 8 00
Spiraeas, clumps.....	5 00	
Hyacinths, named varieties, any color, single or double.....	5 00	45 00
Hyacinths, red, blue, white, single or double, mixed.....	3 00	30 00
Narcissus, assorted.....	2 00	20 00
Tulips, named varieties.....	2 00	18 00

Above are CHOICE bulbs, not such as commonly sold. All forcing varieties. Try some.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

G. J. MOFFATT, Manufacturer of PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Mention American Florist.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

OUR GERMAN LILY OF THE VALLEY PIPS

Are unexcelled; if properly forced they cannot be surpassed in general average results. They are furnished by us to the largest Cut Flower growers all over the U. S. Order a sample box now if you never have tried them before.

THE PRICE IS \$9.00 the 1000 pips (Nine Dollars).
\$20.00 (Twenty Dollars) the original box of 2,500 pips.
Off this we allow 10 per cent. for prompt cash.

FRESH STOCK NOW READY FOR DELIVERY.

AUGUST RÖLKER & SONS, New York,

. . . 136 West 24th Street, or P. O. Station E.

OSKAR KNOPFF & CO., SEED GROWERS, Erfurt, = Germany, FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

The Trade SEED CATALOGUE of

C. PLATZ & SON, ERFURT, PRUSSIA

Will be mailed to all applicants, by their Agent,

C. RAOUX, 296 Pearl Street, New York.

STOCK THAT SELLS WELL! LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered for sale from cold storage.

2,500 to 5,000 Pips \$8.50 per 1000
7,500 to 10,000 Pips 8.00
12,500 to 25,000 Pips 7.50

C. G. ABEL & CO., New York.
P. O. Box 929.

Send for Catalogue of JAPAN BULBS, SEEDS, AND SHRUBS.

**ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.**

1st QUALITY.

We have gained the reputation of having the finest TUBEROSES in the world, and if you would have the **VERY BEST**, send to us for sample. Two important items, viz.: quality the best. Price the lowest. Send to-day for FREE sample by mail POSTPAID. Address

H. G. FAUST & CO.,
64 & 66 N. Front St., PHILADELPHIA, PA.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

BLACK CALLA



Until DECEMBER 15 we will dispose of a fine lot of **BLACK CALLAS**, home grown stock, ready to grow now, at **\$18 00 PER 100** or **\$3 00 PER 12**. After that date we will them and charge a higher price.

GLADIOLUS NANCEIANUS. The largest flowers known; 10 named varieties, 50c. each. Price elsewhere is \$1.00. Send for List of Novelties in Bulbs.

A. BLANC & CO., Philadelphia.

Mention American Florist.

SEEDS! PLANTS! BULBS!

Everything pertaining to the Farm and Garden of the best and choicest quality. **PRICES RIGHT.**

Catalogue on application.

WEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

100,000 CARNATION FLOWERS



35,000 ROSES.

25,000 Violets.

25,000 Lily Valley.

15,000 Roman Hyacinths.

15,000 Adiantums.

5,000 STRINGS SMILAX.

15,000 Paper White Narcissus.

ALL HIGH GRADE GOODS.



The product of Sixty-Five of the largest growers in New England, will be Cut Fresh, ready for shipment **December 21, 22, 23 and 24.** Send for Price List.

WELCH BROS.,

No. 2 Beacon Street, - BOSTON, MASS.

CARNATIONS

FOR 1893.

GRACE BATTLES. Having purchased an interest in Mr. Lonsdale's beautiful pink seedling, orders are solicited for delivery Feb. 15, my own growing.

From my list of the newer varieties note the following:
PEARL.—White, with sometimes pink suffused, 3 to 3½ inches across, fine form, fragrant and handsome.
THOS. CARTLEDGE.—Slightly deeper shade than Thad Wave, with long, erect stems, flowers full in center, of fine form, productive and remarkably quick to come in bloom.

Puritan, Golden Triumph, Aurora, Nancy Banks, Grace Darling, Crimson Coronet, Peachbloss Coronet, Emily Pierson, Orange Blossom.

I shall make a special run on
ANGELUS.—As a near approach to the ideal in form and habit, of good size, a lively shade of pink, deeper than Wilder without streaks in midwinter.

CEAR.—As the finest variegated variety, very large and full, extremely productive, stems erect, highly recommended for crossing.

DAYBREAK.—Delicate salmon pink, of good habit and construction.

BUTTERCUP.—As the standard yellow variety. My annual list will contain full descriptions of the above and over 50 other varieties of my own growing which I shall offer the trade.

(Correspondence and personal inspection invited.)

C. J. PENNOCK,
The Pines, Kennett Square, Chester Co., Pa.

A Great Pair.

EDNA GRAIG \$12 per 100.
GRACE BATTLES \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gale** at \$3.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Cartledge	Nancy Banks
Pearl	Grace Darling
Golden Triumph	Mrs. Hitt
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.
Mention American Florist.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. F. Deer, J. R. Freeman, and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES
500 Paul Neyron, strong plants... \$10.00 per 100.
20 other leading varieties... \$30.00 per 1000.

CHRYSANTHEMUMS.
ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

CARNATIONS

ROOTED CUTTINGS.

Send for Price List of all the leading varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

ROOTED CUTTINGS.

Carnations.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan and others. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention. Write before placing your orders.

LIZZIE MCGOWAN now ready, at \$3.00 per 100; \$15.00 per 1000.

SEEING IS BELIEVING. CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,
Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

Rooted Cuttings.

Carnations, New Scarlet, Emily Pierson.....	Per 100 \$3 00
Leading varieties.....	1 25
Violets, Russian and Neapolitan.	
Coleus and Alternantheras in var.	

A. N. PIERSON, Cromwell, Conn.

Florists!



It will pay you to consult my list before buying your

ROOTED CARNATIONS.

I can supply the leading novelties of 1893 and 30 best standard sorts, new and old.

ROOTED COLEUS.

In 25 varieties, best bedders and fancies, including a new yellow that will be an acquisition.

Descriptive Trade List

Sent on request. Address

ALEX. MCBRIDE,

... **ALPLAUS, N. Y.**

ROOTED CUTTINGS of CARNATIONS

Here we are again; but in a better shape than ever before. In addition to our extensive range of greenhouses, we have added two new houses, each 50 feet long, devoted to the propagation of carnations only. December to June. We have the best of the new varieties recently introduced; also the best standard sorts not superseded by the choicest of the recent acquisitions. Our stock is in perfect health, and more flourishing than ever. Trade price lists will be mailed to all applicants after December 1st.

Correspondence solicited. Watch our ad.
JOSEPH RENARD, Unionville, Chester Co. Pa.

ROOTED CUTTINGS OF

CARNATIONS

All the leading varieties.
Fine stock Buttercup.

CUT FLOWERS OF CARNATIONS.

Write for prices.
CHAS. T. STARR, Avondale, Chester Co., Pa.

Miscellaneous.

GERANIUMS in over 50 of the best new and old sorts. Transplanted cuttings at \$2 per 100 or \$17 per 1000; rooted cuttings from the sand, per 100 \$1.50, per 1000 \$12, mixed, per 1000 \$10.

PETUNIA finest picked from many seedlings of the best strains. Double Grandiflora fringed, per 100 \$3.00. Single Grandiflora fimbriata and California Giants, per 100 \$2.00.

SCARLET SAGE. A new very dwarf that blooms well in small pots is Wm. Bedman, price per 100 \$5.00. A. Wettig, a compact sort and an extra early bloomer, price per 100 \$2.00.

COLEUS in 26 of the best bedders, Red and Yellow Verschaffeltii, Golden Bedder and Firebrand in extra quantity, also that grand, new sport, Fire Crest, price per 100 90c, per 1000 \$7.50.

ALTERNANTHERA. Red, Yellow, Pink and Orange, per 1000 \$6.00.

SEND FOR A LIST.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS.

SEND FOR LIST.

A FULL HAND BEATS A GREAT PAIR.

DORNER'S SEEDLINGS.

Wm. Scott,
Diaz Alberina,
Elizabeth Reynolds, \$10.00 per 100.
R. chmond, \$75.00 per 1000.
Purdue,
Spartan, February Delivery
Wabash,
Dr. Smart, Orders booked now.
Blanche,
Western Pride.

Cottage Garden Greenhouses,

EAST MORICHES, N. Y.

C. W. WARD, Manager.

ORANGE BLOSSOM CARNATION.

One of the leading new varieties, and an immense bloomer; received a Certificate of Merit in 1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.
MAY FLOWER, splendid variegated, \$2.50 per 100.
THE JENNINGS' STRAIN OF PANSIES, trade packet, 2000 seeds, \$1.00.

E. B. JENNINGS,
SOUTHPORT, CONN.

ROOTED CUTTINGS

Of the Best Old and Most Promising new varieties of

CARNATIONS.

Write for a catalogue and send list of wants for an estimate.

J. S. Styer,
CONCORDVILLE, PA.

Cleveland.

The prospects for a full crop of flowers for Christmas is not very flattering at present. Up here on the shores of Lake Erie we seem to get more than our share of cloudy weather in December and it seems unusually the case this year.

In a tour through the greenhouses we find through a lack of sun light flowers develop so slow that when cut they seldom last over 24 hours after being exposed for sale on the counter. This is especially true of carnations, and Silver Spray in particular. The new growth on roses is weak and will not produce large blooms if this weather continues. Goutiers are looking a sickly red when they open and can be sold for pink roses if the customer wishes that color. Perles are degenerating into full flegged "bull heads." Hostes drop their petals before well opened. Meteor—well if this continues we will have a decided black rose. Mermetts are a shade deeper than Bride, Cusin and Watteville are good color, and so is Bridesmaid. If this latter rose continues to improve in popular favor in the future as it has in the past Mermet will be discarded altogether. Niphotos are poor, some of them mere shells with a hollow center. It did look as though there would be some Harrisii in the market for Christmas—but they are very slow so there will be but few if any. There will be some chrysanthemums but not of first class quality, yet they will answer very well if other flowers are scarce.

Surely "the melancholy days have come, the darkest in the year," but there will be a broad grin on the growers face from Dec. 24, to Jan. 2nd, when wholesale prices will range as follows here in Cleveland: Goutier 10 to 12, Niphotos 10, Perle 15, Mermet 20, Bridesmaid 20, Bride 25, LaFrance 25, carnations 3 to 4, etc. L. F. D.

P. SEBIRE & SONS, Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazarz cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.
C. C. ABEL & CO., P. O. Box 920, New York

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French hardy hybrid Nymphs. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

CHRYSANTHEMUMS

CHOICE STOCK PLANTS.

MRS. E. D. ADAMS,	FLORA HILL,
MRS. W. S. KIMBALL,	MRS. J. G. WHILDIN,
HARRY MAY,	EDA PRASS,
ADA McVICKER,	MRS. ROST CRAIG,
RICKS ARNOLD,	MRS. GOV. FIFER,
ANNIE MANDA,	YONITZA,
MRS. SENATOR HEARST,	EMMA HITZEROTH,
KREIGER,	MARIA SIMPSON,
LILLIAN RUSSEL,	MRS. J. WESTCOTT,
JOSEPH A. WHITE,	FRANK THOMSON,
	And MRS. L. C. MADEIRA,

The largest yellow Chincua incurred variety. It is appropriately dubbed the Golden Ball. It should be in every collection.

DAILEDDOUZE BROS., PLATZBUSH, N. Y.

EARLA "MUMS" CATCH THE "MUM."
There are still some left of the
STANDARD SORTS
advertised on Page 376 of the "Chrysanthemum
Number."

JOHN CURVEN, JR.,
Money Order Office, Villa Nova, Pa.

Seven first-class Certificates awarded by the Royal Caledonian Horticultural Society, Edinburgh, September, 1892.

Four first-class Certificates awarded at the International Horticultural Exhibition, London, July, 1892.

Three Awards of Merit given by the Royal Horticultural Society, London, July, 1892.
Special Award of the Highest Merit given by the Glasgow and West of Scotland Horticultural Society, September, 1892.

Tuberous Begonias.

FINEST STRAIN IN THE UNIVERSE.

Attention is directed to the fact that my Exhibit at the **INTERNATIONAL EXHIBITION**, held at **Earls Court, London, England**, in July this year, gained the highest competitive award, namely,

THE FIRST PRIZE

In contest among Nurserymen open to the world.

Prices of **TUBERS** and **SEEDS** of **DOUBLE** and **SINGLE NAMED** varieties. **DOUBLE** and **SINGLE** kinds selected to color. **DOUBLES** and **SINGLES** in mixture mailed upon application.

THOMAS S. WARE,
HALE FARM NURSERIES, TOTTENHAM, LONDON, ENGLAND.

Adiantum Capillus Veneris,

The coming Fern for florists. For reasons why see **AM. FLORIST**, issue of September 1st, page 119.

Splendid young stock, 2 and 2½-inch pots, now in prime condition to ship. **Price \$8.00 per 100.**

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5 inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and hills up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,
• • • Bay City, Mich.

New Chrysanthemums for 1893.

THE QUEEN.

Winner of The Prize at Madison Square.
Also the Storer Prize at Cincinnati

FOR BEST WHITE SEEDLING.

"The Queen" is undoubtedly the best white for commercial purposes. No grower can be without it. **ORDERS BOOKED NOW. Price \$1 each; \$10 per Doz.**

Write for description and prices of new set.

FRED. S. WALZ, Sta. A, Cincinnati, O.



TRY **DREER'S**
GARDEN SEEDS

Plants, Bulbs, and
Raspberries. They are
the best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Association "Flora"

ROSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. F. ROSES, for forcing, 5.00

In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plautier, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blancs, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Palms, Dracenas, Araucarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.

Please mention the American Florist every time you write any of the advertisers on this page

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,

Bucks County, MORRISVILLE, PA.

Pines, * Wild Smilax AND Palmettos

For XMAS. Order early to insure careful selection and prompt delivery, by

A. E. OELSCHIG,

SAVANNAH, GA.

XMAS TREES.

HOLLY! IN WREATHS
AND BRANCHES.

Laurel and Bouquet Green.

Wreaths and Festooning. . . .

J. CHAS. McCULLOUGH,

North East Corner Second & Walnut Sts.

CINCINNATI, OHIO.

Mention American Florist.

Holly

BRIGHT GREEN LEAVES,
RED BERRIES.

ORDER NOW.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARACARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, C. L.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, Magnolia glauca, Kalmia
latifolia, Xerophyllum, collected. Fine col-
lection Hardy Perennials and Hardy Flow-
ering Shrubs.Wholesale Trade List FREE. Send samples of
what you want.

ROGERS NURSERIES, Moorestown, N. J.

Mention American Florist.

HOLLY. "All Florists' Stock In Season."

We can supply **First-Class Stock on time.** We attempt no competition in price with stock which has never yet arrived, or arrived after Xmas. "A case of Holly in front of the store is worth four on the cars." Price, f. o. b. cars Chicago, per case, well packed, \$6.00.

NEW YORK:

12 Barclay Street. J. C. VAUGHAN, CHICAGO:

146 & 148 W. Washington St.

CHRISTMAS Delivered at Your Door. GREEN.

I am not quoting prices at Evergreen, Alabama, or any other point a thousand or two miles away from you, but I do quote them delivered right at your door—all Express charges prepaid. I will send

1 Barrel Wild Smilax for.....	\$3 25
1 Bale of 3 Barrels Wild Smilax.....	8 00
1 Dozen Chamærops Palm Crowns, 4 to 5 feet.....	5 00
4 Sabal Palm Crowns, 5 feet.....	5 00
1 Dozen Long Needle Pines.....	5 00
100 Chamærops Palm Leaves.....	4 00
100 Sabal Palm Leaves.....	5 00
1 Barrel Magnolia Leaves.....	3 25
1 Barrel Gray Moss.....	3 25
1 Barrel Holly, plenty berries.....	3 25
1 Case Holly, " ".....	6 00

If you want a Mixed Case, I will send small quantities of each at same price, but orders must not be for less than \$3.25.

Cash must accompany order. Positively no goods C. O. D.

SEND FOR ILLUSTRATED CATALOGUE.

CALDWELL, THE WOODSMAN,
EVERGREEN, ALA.

Fancy.



Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

XMAS GREENS. BOUQUET GREEN, HOLLY,

LAUREL WREATHING, WREATH AND FESTOONING OF ALL KINDS.

Long Needle Pines, Palm Leaves and Crowns. Send for Price List, and order early.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

GARDENING

▲ ▲ ▲ To all Florists. ▲ ▲ ▲

Do you know that this new paper, printed twice a month, will answer seven days in a week all technical questions, asked by dozens of your customers in regard to the treatment of their plants, which, to answer each verbally, would require many valuable half hours. Why not tell them "Here is a paper at \$1.00 a year, telling you more in each issue than I can do in an hour." You save time, make a commission on the subscription and please your customer. Think of it and act as our agent.

GARDENING COMPANY, Monon Building, Chicago.

When writing to any of the advertisers on this page please mention the
AMERICAN FLORIST.You will benefit the American Florist
by mentioning it every time you write
an advertiser in these columns.

Chrysanthemum Shows in England.

If it is true in anything that "the appetite grows with what it feeds upon" it is so in respect to chrysanthemums. No shows are so densely crowded by visitors as are the shows of November. They attract all classes, the wealthy by day and the workers at night. The difficulty is to find buildings large enough to enable the multitude to enjoy in comfort the serried ranks of blooms that exert such magnetic force in drawing the people to them.

This force of attraction is exemplified in a somewhat striking manner in one of our seaports—Portsmouth—where the show is held in a building large enough to provide wide avenues between the tables along which thousands of persons can pass; and the committee therefore, dare, and do, resort to popular prices for the people on the evening of the last day. Threepenny admission, and during the last hour the charge is a penny.

Do you ask if they appreciate the privilege? The best reply is afforded by the fact that the pennies have to be wheeled to the bank in barrowfuls! Nothing in flowers draws the multitude like the "mums."

Nor is this admiration brought out by the orthodox shows alone. These exhibitions are provided in several of the London Parks, the authorities having erected structures for accommodating two or three thousand plants. Not less than fifty thousand persons will pass through these houses every Sunday while the flowers remain in beauty, and there is a continuous stream of visitors all the week.

The poor, it is feared, we shall always have with us; may we never lack chrysanthemums to draw them from their dingy houses in court and slum, and cheer their dreary lives. Flowers that do this fulfill a noble mission, for they incite new thoughts and higher aspirations.

London, Eng. JAMES H. LAING.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

AGENTS:
J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.

ERNST KAUFMANN,

113 N. 4th St., Philadelphia, Pa.

HEADQUARTERS FOR

Metallic Designs, Wheat Sheaves, Baskets, Cape Flowers, Immortelles and all Florists' Supplies.

U. S. AND FOREIGN

PATENTS

Trade Marks, Designs, Opinions, Searches, &c., promptly attended to. Send sketch or model for free examination as to patentability. All work strictly confidential.

GEO. H. CHANDLEE,

Atlantic Building, WASHINGTON, D. C.

MAIL

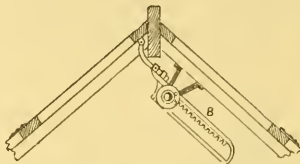
LOCK THE DOOR BEFORE THE HORSE IS STOLEN.

DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

SEE WHAT THE FLORISTS SAY ABOUT

The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more Order Sheets, for as fast as old houses are repaired or new ones built we want your "WHEAT SAWS."

Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,

HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,

EVANSVILLE, IND.

CUTS!



Wood Engraving,

Zinc Etching,

Half-Tone,

Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,

183 Monroe Street,
CHICAGO.

ENGRAVERS.

TOBACCO STEMS

FOR FLORISTS.

Packed in bales.

PRICE:

200 lb. bale....\$3.50

500 lb. bale....\$8.00

CANE STAKES.

Fresh stock: per 1000,

7 to 10 ft., \$7.00.

WM. ELLIOTT & SONS,

SEEDSMEN,

54 & 56 Dey St., NEW YORK.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

RUDOLPH HANTZSCH,

Wholesale Manufacturer of

WHEAT • SHEAVES.

Importer and Manufacturer of

FANCY BASKETS and FLORISTS' SUPPLIES.

Full line of Metallic Wreaths, Crosses, Anchors, Etc.

S. W. Cor. 7th St. and Lehigh Ave., Philadelphia Pa.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,

HARRISBURG, PA.



A WELL STOCKED STORE has an appearance of prosperity about it which customers like to see. Don't allow your shelves and show cases to run empty.

KEEP UP TO THE TIMES. Have a good and varied assortment for patrons to select from. Give them no excuse to look elsewhere.

WHEAT SHEAVES, both flat and upright in all sizes, are in constant demand. Remember that we are the largest manufacturers of these goods in the country.

NO WELL REGULATED FLORIST store is run now without a well filled case of metal designs. Customers like them, for they are artistic and lasting, and are in every way superior to all other forms of material designs.

THERE IS MONEY IN THEM FOR YOU.

When you need Cape Flowers, Immortelles, Tinfoil, Doves or any other Florists' Goods, we can supply you promptly and at lowest prices, and we sell *nothing at retail*.

SEND FOR CATALOGUE.

H. Bayersdorfer & Co.

56 N. 4th St.,

PHILADELPHIA, PA.



SAVE TEN PER CENT.

Beginning with November 21st, and up to December 24th of the present year, we shall allow, as long as our present stock lasts, to all purchasers of **IMMORTELES, BOUQUET PAPERS, BASKETS, JARDINIÈRES, POT COVERS**, plain and fancy, old and new styles, as quoted on pages 11 to 31 and 48 to 50 of our Trade Catalogue published last September,

AN EXTRA HOLIDAY DISCOUNT

of Ten per cent. besides the regular Cash Discount of Ten per cent. Also on **Metal Memorial Designs** of all patterns, as quoted on pages 39 to 40 and in our Special List of these designs. Do not fail to send in your orders early, so as to avoid delay.

We call special attention to our

COLUMBIAN JARDINIÈRE

of Bronze, finest, as designed for us by a Tiffany artist, and offered at the very low price of \$2.00 for 10 inch diameter; \$2 50 for 12 inch diameter.
CYCAS LEAVES, (Sago Palms), natural prepared, equal to the fresh cut in appearance and often even better looking; we keep on hand, in different sizes, from 30 inches upward, at 45c, 50c., 60c., 75c. and \$1.00 each, according to length.

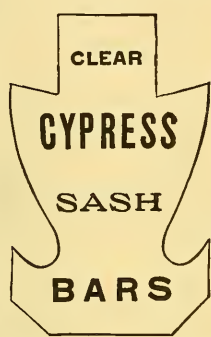
Wholesale List mailed FREE to the Trade on application. Address

AUGUST RÖLKER & SONS, NEW YORK,

136 & 138 W. 24TH STREET, NEAR 6TH AVE., OR P. O. STATION E.

CYPRESS GREENHOUSE MATERIAL

HOT BED AND VENTILATING SASH



**CLEAR
CYPRESS
SASH
BARS**

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

For Mildew on Roses and Carnation Rust USE FOSTITE!

It Costs Nothing to Try Fostite!

A Five-Pound Sample Package SENT FREE
with an order for one of JOOSTEN'S MAGAZINE
BELLOWS. Price \$3.50. Cash with order.

SOLD BY DEALERS IN SEEDS AND FLORISTS' SUPPLIES.

C. H. JOOSTEN, 3 Coenties Slip, New York.

For Sale in Chicago by E. H. HUNT, 79 Lake Street.

**GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.**

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

HERE WE ARE AGAIN.

CYPRESS GREENHOUSE MATERIAL

HOT BED AND VENTILATING SASH



LYMAN FELHEIM,
ERIE, PA.

Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaranteed.

CORRESPONDENCE
SOLICITED.

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Always mention the AMERICAN FLORIST when writing to advertisers

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY
N. STEFFENS

335 EAST 21ST ST. NEW YORK.

**FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,**
And for any and every purpose for which a hose
can be applied.

Sizes, 1/4-inch to 42 inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manu-
facture is an infringement on one or more of our
Patents. The rights secured to us render each individual dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,**
Sole Mfrs and Owners of all the **Sphincter Grip Armored Hose Patents**, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.
The neatest and strongest box on the market.
Send 15 cts. in stamps for sample nest and price
list. I also make Cut Flower and Express Boxes.

W. E. SMITH,
Successor to SMITH & SMITH,
Hardin County, KENTON, OHIO.
Mention American Florist.



Kills Mildew
and
Fungus growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

Foreign Notes.

Our English friends comment on the remarkable advance in American chrysanthemums, which were this year prominent prize winners at all the big shows across the water. Among those attracting special notice abroad were Puritan, Louis Bochmer, W. H. Lincoln, Mrs. E. W. Clarke, Mrs. E. D. Adams, Col. W. B. Smith, Lilian B. Bird and Violet Rose.

Phoenix Rechelein, a palm of comparatively recent introduction and still little known, may be described as a miniature date palm in form. Its stem, when fully grown, attains a height of about two feet, with a graceful head of arching leaves, somewhat similar to Cocos Weddelliana. Its habit is extremely graceful, and it is very easily grown. It is a native of Siam. Another dwarf palm of recent discovery is Thrinax Morrisii, a native of the West Indies. This has a slender stem, with a graceful head of fan leaves; it attains a height of about three feet.

The "Clara Danda."

Describing a local chrysanthemum show the Pittston (Pa.) Gazette, goes on as follows:

"In the windows are large palms of the *directa lutea* variety, and along the sides of the room and banked at the rear are plants of the *elasticia*, *maltabrosia*, *clara danda*, *ardicia segran* and morial varieties in profusion. Several *pendanas screw vines* are conspicuous for their rare beauty. There are tulips creeping vines, handsome *Chinese sacred lilies*, hyacinths, six varieties of choicest roses, bulbs, ferns, etc."

Patents Recently Granted.

Clover huller, R. McLean, Lagrange, Ind.; Fruit bleaching apparatus, E. Ireland, Winters, Cal.; Fruit conductor or conveyor, J. M. Settle, Jacksonville, Fla.; Fruit drying tray, H. H. Taylor, Fresno, Cal.

World's Fair.

We have obtained a quantity of the handsome colored lithographs of the

Horticultural Building

of the World's Fair, at a special low rate, and will mail a copy, prepaid, in a tube, to any address on receipt of the price, now reduced to **50 cents**.

American Florist Co.,

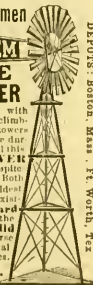
322 Dearborn Street, CHICAGO.

For Florists, Nurserymen & Seedsmen

GEM STEEL GEM WIND ENGINE GEM STEEL TOWER

THE GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no hinged or frail-jointed towers and practically no attention, yet is more durable than other Wind Motors that require all this and more intricate friction. The GEM TOWER combines beauty, strength, durability, simplicity in the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence and who built the *Building Standard Pumping and Geared Wind Mills*, the *Standard Vanities* and the *Solid Wheel Wind Mills*, *Pumps*, *Tanks*, *Hoses*, *Hay Tools*, &c. No other company offers equal inducements. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.,
BATAVIA, ILL., U. S. A.



BRANCH HOUSES: OMAHA, NEB.; KANSAS CITY, MO.;
DEPOT: BOSTON, MASS.; FT. WORTH, TEX.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFEL & CO., SYRACUSE, N. Y.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

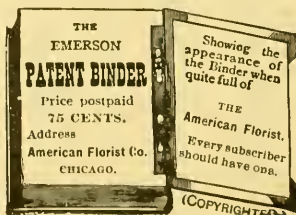
Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

Mention American Florist.



THE STANDARD Ventilating Machines

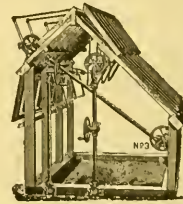
Received best awards

at

BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.



Mention American Florist.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

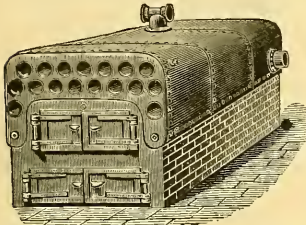
BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

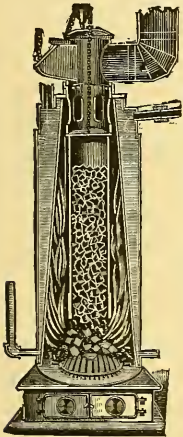
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

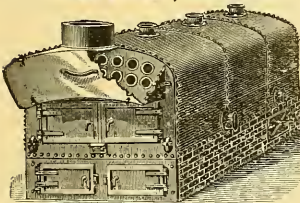
Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Atty,**

OFFICE, 189 STATE STREET.

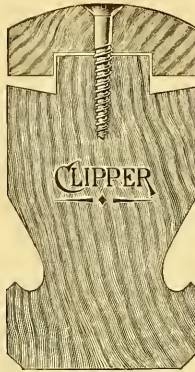
WORKS, 56th & WALLACE STREETS.

CHICAGO.

THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by
THE S. WILKS MFG CO. 123 S. Clinton St., CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED**Greenhouse x Boiler,**
41 to 55 Erie St., CHICAGO.Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information
Mention American Florist.

Do you want an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

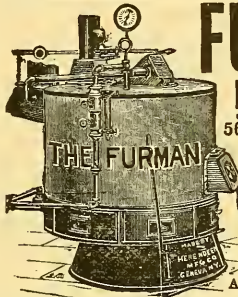
GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

**FURMAN BOILERS****Economical — Substantial — Safe.**

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Stanchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address **HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose, or
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved
RIDER OR ERICSSON HOT-AIR PUMPING ENGINE

Catalogue with full particulars, sent on application.
DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N. Y.
Mention American Florist.

**D. H. ROBERTS,**

159 & 161 S. Fifth Ave., NEW YORK,

NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.

Our Glass received the Highest Award at the Boston Convention of the S. A. F

FIRST-CLASS CERTIFICATE OF MERIT.**PERFECT DRAINAGE BENCH TILE.**

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

STOTT'S SPRAYER

Read advertisement in next week's issue.

Index to Advertisers.

Abel C & C	474	478
Ady Lutes, etc.	472	
Andorra Nurseries	476	
Bahl Lennel	471	
Buller F. A.	476	
Bay State Hdw Co.	482	
Bayersdorfer H & Co.	480	
Baylis Henry W.	473	
Berkemann F. J.	471	
Bergson H. A. & Co.	474	
Blanc A. & Co.	474	
Bonsall Jus E & Son	473	
Boston Letter Co.	478	
Braque L. B.	479	
Brauer & Richter	476	
Burns & Laynor	473	
Burrow J. G.	474	
Burtin John	471	
Caldwell Geo W.	479	
Carman B. W.	481	
Carmody J. D.	479	
Chandler Geo F.	480	
Chicago Cut Flower Ex	472	
Chiley H. E.	477	
Corbrey T. J. & Co.	472	
Cottage Gardens The.	477	
Curwen John Jr.	478	
Dallidouze Bros	476	
Derhine's Boller Wks.	483	
De Lannat Iron Wks	483	
Dillon J. L.	471	
Dreer H. A.	479	
Eckhardt Theo.	474	
Elliott W. H.	471	
Elliott Wm & Sons	480	
Ellison Wm.	472	
Faust H. G. & Co.	474	
Feldheim Lyman	479	
Feld S. B.	476	
Gardening Co.	476	
Gardner J. & Co.	476	
Gheen John J.	470	
Gibson J. C.	471	
Gonzalez & Co.	479	
Hall Ass'n.	480	
Hammond Benj.	481	
Hantzsch Rudolph	480	
Hart James	473	
Hart Michael A.	473	
Hartford H. E.	479	
Hohl Jos.	471	
Horseshoe Mfg Co.	473	
Herr Albert M.	471	
Hewes A. H. & Co.	482	
Hill E. G. & Co.	479	
Hillard E.	482	
Hitchings & Co.	484	
Hitchings H. M. Co.	482	
Horan Edw C.	471	
Hutsch Bros	471	
Hunt E. A.	473	
Hunt M. A.	471	
Hunter & Purdy	473	
Irvine John C.	478	
Jeffords J. E. & Co.	482	
Jennings E. B.	471	
Joosten C. H.	476	
Kaufmann Ernst	480	
Kennicott Bros.	473	
Kirkland W. G. & Bro.	479	
Knuoff Oscar & Co.	474	
Kottman E.	476	
Kroschell Bros.	483	
Kuehn C. A.	472	
Kuhl Geo A.	472	
La Roche & Stahl.	473	
Lockland Lambert Co.	483	

CINCINNATI.—Trade picking up, but society receptions are few and far between, and the prospects are not bright for a brilliant season, consequently florists are not as cheerful as they might be.

INDIANAPOLIS.—Business good and the prospects for a good holiday season are flattering. The chrysanthemum show closed at a loss of about \$200. From present appearances there will be no show next season. Mrs. Ricman's recent loss of her rose houses by fire is a severe loss to her. She was cutting the finest stock here previous to that, but from present indications the Gas Company will have to pay up as they were notified of the leak in their main pipe long before her house burned, and paid no attention to it. Everybody is bent on having a good time at Chicago next year.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

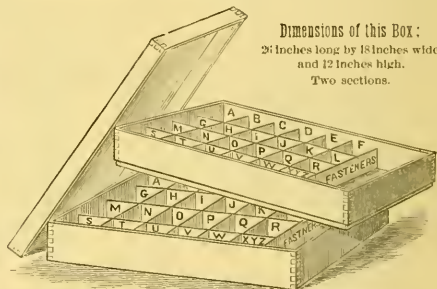
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection

*Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.*

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



Dimensions of this Box:

21 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood,
nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent
fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. P. MCCARTHY, Address 13 Green St.,
Treas. & Mngnr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider
a decided success. Any customers having old style
fasteners which they wish to exchange, can do so
without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

The SPENCE HEATER

Hot Water

FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 24 Centre St. San Francisco, 405 Market St.



**GREENHOUSE HEATING
AND VENTILATING.**
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
Send for Catalogue.



**GREEN-HOUSE
HEATING.**
Meyers & Co.
1173 S. Ninth St.,
PHILADELPHIA.
Send for catalogue
and price list.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, DECEMBER 22, 1892.

No. 238

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
323 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1892.

The new officers to be installed January 1, 1893 are: Wm. R. Smith, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Christmas greens (with figures)	485
Color tones	487
Roses—Gustave Pigneau	488
—Seasonable notes	488
—Short span to the south	488
The variegated hop (with illus.)	489
Chrysanthemums in the south	489
Carnations—Seasonable hints	489
—Wetting carnation foliage	490
New York	490
Philadelphia	490
Boston	490
Chicago	491
Baltimore	491
Buffalo	491
Toronto	492
Worcester, Mass.	492
Montreal	492
News notes	494
The seed trade	496
Short span to the south	498
A national flower	498
Foreign notes	500
Glazing	500
News notes	502

OUR TRADE DIRECTORY.

We shall issue about February 1, 1893, a supplementary sheet embodying all the corrections in addresses and additions to the list of those engaged in the florist, nursery or seed trade, of which we can obtain information. At the present rate of progress the number of additions and changes in such a list in the course of 12 months is very large. Also in the compiling of such a work as the directory some errors are unavoidable. Such are noted we shall correct, and we would respectfully ask our subscribers to aid us by calling our attention to such inaccuracies or omissions as may have come to their notice.

The supplementary sheet will be of the same size and form as the leaves of the directory and will be distributed gratuitously to all who have purchased copies of the 1892 edition.

THE THEORY OF DESIGN IN DECORATION



BY F. SCHUYLER MATHEWS.
Christmas Greens.

The essential point of any design in connection with decorations appropriate to Christmas, is that it should carry with it some clear and simple reminder of the joyful season. I can hardly think of Christmas without associating it inseparably with the beautiful words:

"On earth peace, good will toward men."

I cannot conceive of anything more important than these words, in any dec-

three parts on different levels. At all hazards keep the lettering together and do not scatter it through a long space. I do not believe in lettering made of greens, because of the difficulty in reading it; but letters cut out of gold or silver paper pasted on cardboard, and then fastened by wire nails over a frame of closely woven fir branches, are certainly preferable. It is far better to have the panel made of half-inch thick wood, or other material than to mar a wall or tablet, by the use of tacks and nails, besides, this special text ought to show itself as a part of the decorations.

Without disturbing in the least, the arrangement of bric-a-brac and decorative accessories in a room, it is quite possible to suspend from the picture moulding, by narrow ribbon, a well adapted design of Christmas greens, which will make an agreeable impression on the eye. Fig. 3 shows some such arrangement. Most

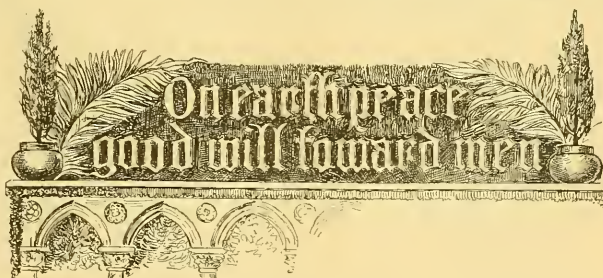


Fig. 1.

orative scheme intended for either church hall, or home; they carry with them the true message of Christmas, and Christmas greens without the accompaniment of a message, are like the body without the spirit. Such is my estimate of "design" in connection with decoration, that I believe we must say something—put a meaning in the thing we create or there is no reason in creating it.

Therefore, I think we need some text, whatever it may be, to go with our decorations for this joyful day. My sketch (Fig. 1) is a mere suggestion, which can be taken for what it is worth, and not used as an arbitrary pattern. The text ought to follow a line suggested by the altar or the wall immediately behind the desk. Sometimes the line looks best curved, say, a part of a circle; but a double curve (Fig. 2) is most always bad. Windows, doors, screens, panels, railing or tablets, will decide the matter for the decorator, and he will be wise in adjusting the line of his text to their requirements, even if that line is broken into

every household possessing anything of art in it, to-day has some photograph of a Madonna from an old or a modern Master. This is especially appropriate to Christmas, and the decorator ought to seize the opportunity, and make the picture a part of his decorations. The ribbon used should be of lightish olive green. The holly should be carefully and



Fig. 2.

firmly grouped over the frame, and the roses in the vase beneath ought to be Cornelia Cooks, or Brides. If Mermetts are used, then somewhere, and somehow, pink ribbon, very narrow, ought to be introduced to hold the design together in its color tone; and I would use mistletoe

or wax berry branches instead of the holly, and thus be rid of the vermillion.

I scarcely like to recommend, but I would suggest the use of powdered glass, for certain purposes; such a thing might seem to be lacking in the dignity that Christmas decorations ought to possess; yet with prudent use, I know that beautiful effects can be produced with this glass, or isinglass, without putting down the character of the work to the level of theatrical superficiality! Use a little, *very* little of the glass, by the aid of maulage, to frost a few leaves here and there, and note how they glitter under the light! I have also seen white lettering frosted with the glass, sparkle like snow among the evergreens. But of all vulgar things, the imitation of letters loaded with mock snow and icicles, is positively the worst; and the glass used this way spoils everything, but used sparingly on leaves, and candidly on plain square cut, or old English lettering, it suggests a touch of nature. The best part of *design* is its *suggestiveness*; when one descends to base imitation, design and art leave us, and vulgarity appears at once on the scene! And further, we *must* be consistent; so the holly and the fir may be frosted, but never the palm or the fern.

It is an error to cover the ornamental painted or carved portions of an interior, whether it be that of church or house, with the decorative greens. The carved capital of a pillar should show, and the greens should rather follow lines which will leave such decorative points undisturbed. Leave one good thing alone, and create another beside it, is the better rule to follow. My sketch of a trained bay laurel tree, and the effect of a pillar and arch beyond (see Fig. 4) will show how these forms are the more attractive



Fig. 3.

because near each other, and how little it was necessary to do to the pillar.

The beautiful though sombre Sago palm leaf, typical of peace, certainly connects itself closely with the angel's song of "Peace on Earth." On a green (olive-toned) ribbon, these words might be painted in silver bronze, and the design fastened in front of the reading desk, if possible as in my sketch (Fig. 5).

That extremely delicate and airy vine, *Asparagus plumosus*, I scarcely need say, should have air all around it, and a little

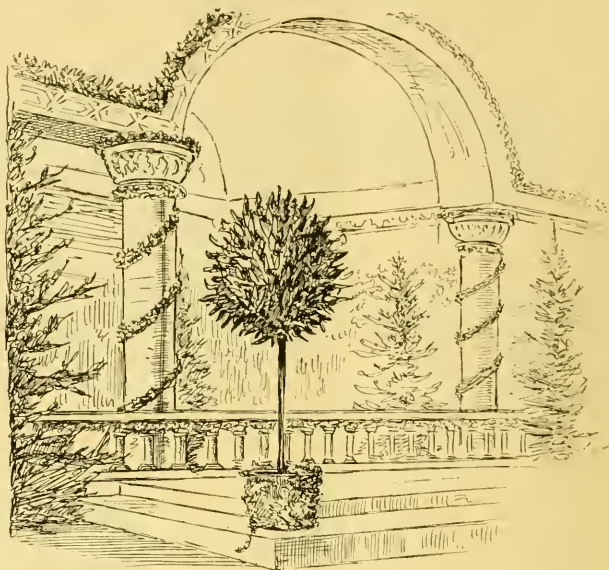


Fig. 4.

should go a great way. I always put it where it is likely to be near the eye; otherwise its daintiness counts for nothing. Smilax, though less delicate has a claim for near and light touches in decoration, and contrary wise, the Norway pine works in splendidly for broad, striking, and withal, near effects although it is coarse in character. A beautiful combination of scarlet and toned green may be obtained by using the bright berries of the black alder (I believe it is the alder which has those charming branches of bright red berries) with some sturdy branches of the Norway pine; no e the arrangement in Fig. 6.

The charming fern, *Nephrolepis Davallioides furcans*, is more appropriate to the decoration of a house or a Colonial church, than to a Gothic church; the latter needs strong and broad treatment, and few ferns seem appropriate to its embellishment. Holly, mistletoe, the evergreen trees, and laurel are rather more in keeping with the Gothic; still, I see no reason why a bed of ferns, some dainty red azaleas, mosses, and vines, should not be grouped naturally in and around baptismal fonts, and at the base of pulpits. Ferns should be kept on or near the floor, where naturally, we may look down on them; the azaleas we may put where we please.

I have had occasion to say before, that certain accessories should be placed at the disposal of the florist decorator, as these will greatly add to artistic effects, and in connection with Christmas greens, a gas jet star is one of such accessories; one with five or six points, fastened pretty high over the altar and connected by rubber tubing to the nearest gas fixture, makes a brilliant culmination to Christmas decorations. The tube approaching the star from the rear, is easily hidden among

the greens; there are so many simple ways of holding the star firmly, that it is unnecessary to explain any. My sketch (Fig 7) shows a plan of suggesting rays, by some dainty (not heavy) smilax twisted closely around silvered picture wire drawn absolutely taut. I would in this case sprinkle plentifully the powdered glass over the greens for a short distance directly beneath the star, or, as we are dealing entirely with distant effect, I should not hesitate if I had such a thing

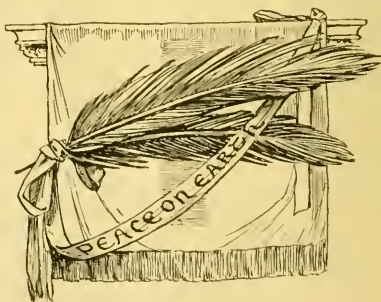


Fig. 5.

to use some artificial *white* frosted foliage for just a little distance downward from the star, mixing and joining it with the natural green. We can suggest nature with good taste by a device like this, where there is not the slightest hint of vulgar imitation. Green material absorbs a great deal of light, and directly beneath the star we need white wax berries, powdered glass, or *something* which will shine and reflect the light.

Hemlock, fir, and pine, are plentiful



Fig. 6.

enough to use in boughs for a solid background effect; I myself prefer the boughs to solid laurel or other green leafage. I have used ordinary black spool wire drawn taut, with excellent results in the making of a green screen. Holly, it seems to me loses its value, used "en masse." I use it *over* other greens, or against undecorated spaces, where every leaf and red berry will tell.

I leave it for the rough sketches rather than description to show the practical arrangement of the greens, in detail. It must be understood that it is my aim to suggest, not plan out methods of work; a suggestion sometimes opens a wide field for creditable variations, where a concrete plan is apt to impose unreasonable limitations.

Color Tones.

F. Schuyler Mathews says: "We must never forget that yellow and pink are never friends under any light. Separate them at any cost." Now that is pretty strong meat. I should much prefer to accept nature's teaching. Her color tones are laid on with a master hand and often make a complete "mélange" of mere theorizing. Will Mr. Mathews explain how and why sunset skies are "off color?" Just look at the pink and yellow effects (often in immediate juxtaposition—and all in perfect harmony). Study the rainbow, nature's primary colors. Observe the rose Mme. Pierre Guillot; Marechal Niel occasionally is even more pronounced, along in the same line of blended color, and exquisite, as are also many of the chrysanthemums.

A vase of Daybreak and Golden Gate carnations attracted special attention of an artist of recognized ability as to its

harmony of color tones. With the addition of some white, and substituting Wilders for Daybreak, you again have the true artistic effect of color arrangement. A practiced eye can almost *feel* as it were the proper blending of color that any amount of theorizing might fail to accomplish.

It is a good thing to understand "first principles" and still better to be able to reduce theory to correct practice.

GROVE P. RAWSON.

On the basis of a theory I am afraid the combination of such colors as pink and yellow never rested; otherwise all that Mr. Rawson says would be perfectly true. It is not a *theory* that grease and water will not mix together but a matter of fact, yet with the assistance of an alkali we obtain soap. It is a fact, discovered by those who have devoted their lives to the study of color, that pink and yellow will not agree together, except with the help of other colors.

Nothing is truer than Mr. Rawson's remark that nature's color tones are laid on with a master hand; aye, "there is the rub," because our hands are not like those of either a Titian or a Raphael. So it is my opinion that as a color combination we would better let yellow and pink alone. Unwittingly Mr. Rawson says something else which is true; he calls nature's colors "color tones." I should not, of course, take exception to a misapplied term such as this when I know perfectly well what is meant; Mr. Rawson says "tones" when he really means colors. The term color tone at once implies the presence of a qualifying color or condition. For instance, the zenith blue of the sky on a clear day is *not* a *toned* blue; but the sunset sky is invariably *toned color*, and Mr. Rawson is perfectly right when he speaks of nature's color tones and then cites the instance of the sunset sky.

Now, I must prove here that there is no *theory*, but fact, regarding the unfriendliness of yellow and pink, and at the same time answer the question put to me about the sunset sky.

We must not forget that the words yellow and pink are unqualified names for unqualified colors. There is *no tone* implied. Nature (if I am allowed to cite her in the effort to prove anything) rarely relies on unqualified color when she reveals anything beautiful. Her effects are always simple, but her colors are often complex. The sunset sky is a bit of complex color, however simply yellow and pink it may look to us. A little experiment with cadmium yellow and rose madder used pure and unmixed will convince anyone of that; in short, no one can paint a yellow and pink sunset sky with yellow and pink alone. I have recently sketched one in water color and I used cadmium yellow, rose madder, purple madder, emerald green, orange cadmium and cobalt blue. Notice that it took two foreign colors each to the yellow and the pink to temper them so they would agree with nature. This is what I call complex color. The fact is, nature's sky *was* "off color," that is, so far off the yellow and pink that her harmony of the two was effected by complication with other colors. Nature's combinations of color are, as I have said, qualified color tones and I fear these tones are not easily copied by the juxtaposition of yellow and pink chrysanthemums, especially when my florist friends are handling flowers with the uncompromising colors of the President Hyde and the V. H. Hallock; most cer-

tainly these do not represent the colors of sunset skies or of Marechal Niel and Mme. Pierre Guillot roses.

Scientifically the reason yellow and pink do not agree is because pink throws green on the yellow and yellow throws purple on the pink; that is, the eye is inclined to be influenced in this way. A jumble of color like this, without going into tedious analysis, simply means discord. That such color mixture is discordant, experiment with the eye and colored disks will abundantly prove. Pure strong yellow and pure strong pink therefore are not only revolting to the eye when placed together, but nature fails to give us any parallel of such combination; when the two colors remove themselves into conditions of tone and effect it is *not just* to argue that the pleasing result is a sufficient reason for combining the same colors pure and simple.

The pink chrysanthemum with a yellow disc in the center, the wild rose, the apple blossom, the English daisy and the sunset sky show us combinations of color which do not fall parallel with what we see in groups of marigolds and pink asters. And I venture to say it would need consummate skill to render beautiful an effect of yellow and pink in chrysanthemums. Therefore I have ventured to say separate these colors at any cost.

It is just this difference which exists between simple color and color tone, which makes the difficulty an enormous

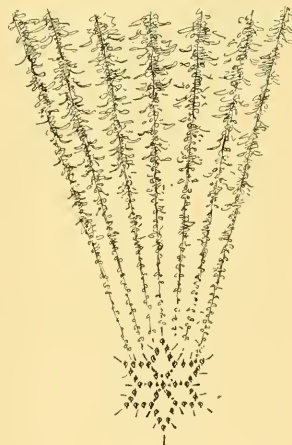


Fig. 7.

one to combine yellow and pink among flowers, which are pretty sure to be uncompromisingly strong in color.

To illustrate what I mean by the word "tone," suppose some one should come to me and order an ornamental design which should be pink and yellow in its color impression. What I should *not* do would be to use pure yellow and pink, but I should pink my yellow and yellow my pink and then throw in what is called a bit of complementary color, which would make the pink look pinker and the yellow yellower; now, if one were to take the scissors and cut out a bit of the pink from the design and place it upon a petal of the Waban rose, the bit of paper would not appear pink at all, and it might

puzzle half a dozen people to decide upon what color it really was. Probably it would suggest pink. The Buttercup carnation suggests yellow, the Grace Wilder is uncompromisingly pink, they look fairly well together, but the paler the Wilder the better, and no thanks to abstract yellow and pink for the harmony.

I beg to say in conclusion, that theory has less to do with color harmony in an artist's picture to-day than tough and bitter experience. We learn best by practice. Place the Kioto chrysanthemum beside your pinkest rose and after looking at them for five full minutes you will want to throw them both out of the window.

I am glad of this opportunity to define at length and to qualify my rather sweeping assertion, but it was a safe one to make, and I take it the reader of the AMERICAN FLORIST prefers that I should hedge about the pit-falls of color in its complexity and clear a straight pathway for the management of color when it is pure and simple.

F. SCHUYLER MATHEWS.



Rose Gustave Piganeau.

ED. AM. FLORIST.—In reading "Rose Notes from England" in the FLORIST of Nov. 10, I was disappointed in reading the description of this rose, and if in growing it here it proves as the writer has prophesied, we shall have cause to thank him for his timely warning. But having kept in touch with the new roses in Europe for the past two years, I had considered this rose the leader of the new II. I's in England and France, while Germany seems to be banking everything on Kaiserin Augusta Victoria.

In the rose notes quoted from me are informed by the writer that the London Crystal Palace rose show held in July the past season was the best show ever held by the society, the size, quality, finish and color of the blooms in all the winning stands distinctly showing progress. But at this beautiful show, containing the standard as well as the new varieties, he did not inform us that the rose that won the silver medal for the best hybrid perpetual flower in the nurserymen's classes was this new rose Gustave Piganeau; not only this but it won the same prize the year before, and was described as splendid for size, form and color, a rich crimson, the petals broad, massive and composing a bloom of great depth and beauty.

This being a French rose we would hardly expect our English friends to give it more credit than it deserves but no English writer that I know of, with the exception of your correspondent, but has spoken of it in the highest terms, while it is predicted in England that the demand for this rose will be so large it will be a number of years before a large stock can be grown to furnish it at a moderate price.

How this rose will do with us we shall be better able to tell after a trial but for those who wish to try new varieties it is

certainly worth considering on account of the record it has already won.

CHARLES L. BURR.
Springfield, Mass.

Seasonable Notes.

The season is now at its height for the blooms of roses, and no effort should be spared to have the plants in the best possible condition. During the very busy season with chrysanthemums many growers are very apt to unintentionally neglect their roses to a certain extent. Where such was the case everything possible should now be done to remedy it. With the cloudy weather and short days we are now getting extra care should be taken to keep all weeds and decaying leaves cleaned off, and where the surface of the soil shows indications of getting green it should be lightly rubbed over with the hands. Avoid doing this with a rake, as the young fibrous roots will be broken and often destroyed by it. If the plants have been mulched with slight top dressing, as previously advised, the roots will now be working freely in it and every care should be taken to encourage them to do so, and should the mulching become exhausted on any part of the surface add a little more. As a rule where a mulching was exhausted in September it would now take another and if the plants are growing very freely a very light dressing of pure ground bone spread evenly over the surface before putting on the mulching will greatly benefit them. But, bear in mind, that to obtain the best results half to three quarters of an inch of manure is ample. More than this is positively injurious. Many think if a little will do good more will do better, but that is a great mistake. The greatest success in plant growing is always obtained by having them hungry enough to take the food given them freely, or by getting them in such a condition that they need a good watering every one, two or three days, according to the weather. With a heavy mulching on the surface this is almost impossible and as a result the plants are very apt to get overwatered, which should and must be avoided if the best results are desired. With a light mulching and the plants growing freely they will take liberal waterings on all fine days, and where bone is used in direct contact or near to the roots they should never be allowed to get too dry or the bone will burn the roots if bright sun should strike the soil for two or three hours.

This reminds me that the subject of watering is the most important of all connected with our business and is probably the one that is the least understood. There is, and always has been, quite a diversity of opinion as to the true method to follow, this largely arising from the difference in conditions in various soils and localities, but it is pretty generally conceded that a healthy growing plant should never be allowed to become so dry as to show it distinctly on the soil, because if it does the youngest and most tender roots will certainly suffer a check. In almost all soils this should be taken as the general rule and if followed up will lead the cultivator to get at a better understanding regarding this matter.

In my own experience I have found the best time to water plants is when the soil becomes a little hard to the touch; in this condition they will take a good watering without checking in the least any of the root or leaf action of the plants, and they should be given enough to thoroughly

moisten the whole without saturating it. The nature of some soils may require a slight modification of this method, but in the main it is applicable to nearly all.

Do not let the temptation to get a few more buds open for Christmas induce you to put on more fire heat, because your plants will suffer by it and the next crop will fall below par; the result will in the end be much less satisfactory in every way.

Keep an average temperature of 56° at night for nearly all the *teas*. Bennett and Meteor are about the only varieties that will stand a little more heat without damage. Give all the air reasonable on fine days, allowing the temperature to run up to seventy-five with bright sun and plenty of ventilation, but start in the morning by giving a little air as soon as the thermometer shows 66° to 68°, increasing gradually with the rising mercury, gradually closing in the same order in the afternoon.

JOHN N. MAX.

Short Span to the South.

In regard to the angle at which the south wall of a glass house should be built I think your correspondent on page 434 is mistaken in saying that a ray of light would become more perpendicular after passing through the glass. The law is stated as follows:

"When light traverses a medium with parallel faces the emergent rays are parallel to the incident rays," i. e., the angle of the rays from the sun would be unchanged.

On the other hand to build a house so that the rays will pass through the glass without being deflected is rather a waste of energy because no matter at what angle the glass is placed a ray from the sun would strike it perpendicularly only twice a year, for one moment of time. In other words any one can see that the morning rays of the sun will strike the glass at an angle from the left and the afternoon sun at angle from the right while the sun will be in a plane perpendicular to the surface of the glass only when it bears due south. So I am inclined to believe that it makes little difference at what angle the glass is placed, for we see every kind of structure doing good service provided a competent gardener is in charge. However the subject is decidedly an interesting one and deserves more attention than has been given to it. It should be tested by actual experiment and then treated from a scientific standpoint.

J. L.

[As evidence of what his "short span to the south" houses are doing Mr. Miller recently brought into this office a big bunch of roses of standard sorts, all of excellent quality—indeed the best we have seen this season, and he tells us he has never before been able to produce such fine blooms. Of course the fact that his houses are new may have a good deal to do with this unusual excellence but Mr. Miller thinks that has less to do with his success than the shape of his houses. But certain it is that his houses are producing large quantities of excellent blooms from late planted roses, and his *Perles* are the best we have seen for many a day. And we hear of experienced rose growers in his vicinity who are already converted and say they will build future new houses on his plan. As for Mr. Miller himself he is preparing to put up another big range of the same style of houses and wouldn't think of building on the old plan. Ed.]

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



THE VARIEGATED HOP

The Variegated Hop.

We present herewith an engraving from a photograph of this new variegated vine, sent us by Mr. Fred Roemer, Quedlinburg, Germany. Mr. Roemer also sent us some pressed leaves of this plant and the variegation was certainly very distinct and striking. The plant has been christened *Humulus japonicus variegatus*.

Chrysanthemums in the South.

During the past season I tested 125 varieties of chrysanthemums to ascertain which were the best early ones for florists' use in Virginia. The result of my experience is given below.

Royal Aquarium, early, good. Jessica, best early. Leon Frache, very early, good. Ivory, early, good. J. R. Pitcher, early, good. L. Canning, Puritan, Mrs. Langtry and Diana, all good. Esperanza, good early bush or pot plant. International, fair. Domination (Mrs. Geo. Bullock), good. Geo. Savage, grand bloom. Firenze and Gloriosum, best early; a good pair south. H. E. Widener, W. H. Lincoln and Kioto, best cut blooms.

Bolero, good early pot plant. E. G. Hill, Grandiflorum, Pres. Hyde, good bush plants. Mr. Bunn, Mrs. I. C. Price, Rohallion, fair. Mrs. L. C. Madeira and Source d'Or, very good. Frank Wilcox, Gold and Golden Rod, best late bush plants, December 1 to 15. Elsie, nice bush plants, small flowers (two inches). Mastodon, yellow, grand plant (8 feet) and grand bloom, very large leaves (3x6 inches), bloom 3 inches larger than any in the collection—bloom must be kept dry or it will damp off. Lizzie Cartledge, Mermaid, for large blooms, very good. Eda Prass, good, in bloom December 16 in 6-inch pots from late cuttings. V. H. Hallock, Violet Rose, Wm. M. Singler, good. T. C. Price, best early. G. F. Moseman, best red and gold. Albert Lundén, Eurus, F. Fortesque, good early. Cullingfordii, E. Audignier, good dark. Duchess, for garden. Harry May, L. B. Bird, Mrs. Irving Clarke, Mrs. D. D. L. Farson, Venus, are very good. E. D. Smith, Syringa, Mrs. Hicks Arnold, are fair. Sec. General Cassoyneau, very good bush or single stem, early. Mattie Bruce, very good. John Firth, good. S. E. George, good. Ada Spaulding, only fair, 3 to

4-inch blooms, south. Guy Fawkes, early, good. S. B. Dana, early, odd color.

The best 15 plants for a florist south I believe to be Jessica, Ivory, L. Canning, Leon Frache, Firenze, H. E. Widener, W. H. Lincoln, Mastodon, T. C. Price, Lizzie Cartledge, Mermaid, Eda Prass, G. F. Moseman, Geo. Savage, Cullingfordii.

FLORIST.



Seasonable Hints.

As the cuttings are placed in the sand they must be given a thorough soaking and not watered again till the sand shows signs of drying on top. They should be sprayed in the mornings until calloused, when the water must be stopped and the sand allowed to dry, but not to the point of wilting. It is not advisable to water at night unless absolutely necessary. The amount of water used will depend a great deal on the degree of heat. There is no doubt a wide range of temperature in which carnation cuttings will root. There is a great cry also that they should be rooted cool, but it is very hard to tell just what is meant by cool or hot unless temperatures are given. We believe a happy medium is the proper course to pursue. Much depends on whether the cuttings were grown in a cool or warm house, whether from plants forced or merely held for stock. The temperature should not vary materially from that of the houses in which they are grown. But we always have the best success from cuttings taken from houses where the plants are in the most active growth. Cuttings from plants kept very cool, as in a cold frame, are almost sure to be a total failure. At least that has been the experience of several growers here.

The matter of bottom heat is also a disputed point. No doubt they will do very well without it; but it will take them longer to root, and time is certainly money. We think there is a decided advantage in using a gentle bottom heat which should be applied at once. The temperatures which seem to suit our conditions best are for the sand 60° to 70°, and for the air overhead 50° to 65°. A variation of 10° to 15° will be found not to be injurious, but we endeavor to keep the air of the house as near 60° as possible during the day and not below 50° at night. At the end of a month the cuttings should be well rooted at these temperatures. At a bottom heat of 75° to 80° and correspondingly warm overhead they will root in 15 to 18 days. It is a question, however, whether this would not weaken the plants. Possibly not if taken out as soon as rooted and gradually brought into a lower degree of heat.

Shade is another important matter. We have heard of growers who allowed the sun to strike the cuttings at all times. We have never been successful by so doing. Our rule is to give all the light possible, but not allow the sun to fall upon them. Another matter equally important is to not allow cool draughts to fall on the cuttings, which will assuredly wilt them as quickly as sunlight. A cutting may become soft to a certain degree

without injury, but if once *willed* it will certainly be destroyed. Therefore when it is necessary to ventilate we keep them covered so long as the ventilators are open. We continue the shading until roots are well formed, when it is gradually dispensed with.

Avondale, Pa. W. R. SHELMIER.

Wetting Carnation Foliage.

I have been much interested in reading the articles in the *FLORIST* on carnation culture, and have been hoping to see something giving the views of growers in regard to wetting the foliage of the plants. The manager of one of the largest carnation establishments in New England said to me, "I would never wet the foliage of the plants if I could help it." Another equally successful grower near Iyry syringes his plants freely. I am in the habit of spraying my plants in clear weather and have had fair success in growing carnations. As I bear such diverse opinions on this matter I should be glad to see it discussed in the *FLORIST*.

H. H. BROWN.

South Sudbury, Mass.

New York.

The receipts of roses are considerably smaller than they were a week ago, and quality has fallen off somewhat. An unusual amount of dark weather is no doubt responsible in part for the deterioration in roses. But it is hard to avoid the conviction, on looking at some of the cuts carefully, that a considerable amount of storing is being done. "They are at it again." Some growers know better, but there are many who ought to know better, yet do not. They will probably meet with the same experience this year as in former years, and perhaps the time will come when they will learn their lesson so well and a such a cost, that storing up roses for the holidays will be considered an unmistakable indication that the man is suffering from paresis.

Prices have advanced slightly under the reduced supply, ordinary roses bringing about two dollars per hundred over previous quotations. Christmas quotations are obtained with difficulty, most dealers being reticent about giving figures.

The late high prices for violets seem to have frightened customers, and it is generally acknowledged that great injury to the violet trade and the flower business in general is likely to result from this last instance of overreaching.

There is an abundance of carnations on the market, Grace Wilder especially being in over supply. The extreme dullness in bulbous stock continues. Lily of the valley is the only thing that holds its own. Roman hyacinths and paper white narcissus are almost dead stock. There are a few tulips to be seen, but as usual when forced too early, they are wizened looking objects, and nobody wants them. *Harrisi* lilies are very fine and sell well.

It is customary to sneer at the old-fashioned methods of arranging flowers with toothpicks, wires, and other artificial contrivances, and to glory in the great advance made in recent years. But what can be said in extenuation of the fashion now prevalent in New York as regards gentlemen's boutonnières? Five or six carnations, wired together into a clumsy wad as big as a hollyhock; this is not exactly a shining example of artistic taste, and looks more like retrogression than progress.

There is a hitch between the Madison Square Garden Co. and the N.Y. Florists' Club regarding their mutual interests in the chrysanthemum show of 1893. The Garden Co. cannot get up a show without the co-operation of the club, fortunately, and that is all that saves the club from being completely at the mercy of this greedy corporation.

On Monday evening, December 19, a very pleasant sociable, or "smoker" was held at the club rooms, on invitation of Mr. John Young. The entertainment was a pronounced success throughout. The rooms were prettily decorated with festoons of laurel and holly branches. The name of smoker was well applied, for there were long pipes and short pipes, meerschaums, corn-cobs, and T. D.'s, and all tastes were suited. On the table an appetizing lunch was spread, and on a raised platform was stationed a sextette of colored talent with banjos, stentorian lungs and all the other requisites of a first-class entertainment troupe. Interspersed were recitations, solos, etc., and every member scored an encore. There was a very large attendance. Hand-shaking prevailed, and it is evident that the New York Florists' Club has started on a new era of good fellowship that will conduce greatly to its welfare. After such a beginning it is safe to say that the semi-monthly smokers will prove to be prime attractions henceforth.

Philadelphia.

Business has been moving along lively the past week, there being a good demand for choice flowers. Beauties and Belles are great favorites and good roses of all kinds sell readily; prices have moved up, smaller roses bringing 3 to 5, while the better class of teas command 6 to 8. Extra fine blooms of *La France*, *Mermets*, *Brides*, *Meteors*, etc., would sell for from 50 to 100 per cent. more but none of the growers about here take the trouble necessary to produce them. Here is an opening for a good grower.

Chrysanthemums are still with us but only to be had of W. K. Harris. He has had some fine *Minnie Wanamaker*, *Lincoln*, *Eva Hoyt*, a pink seedling, and *Mount Blanc* in yellow and white. The flowers of these varieties were all good and brought him \$2 to \$3 a dozen without trouble. *Lincoln*, *Minnie Wanamaker* and several other early varieties, he has demonstrated can be brought in at any time, by giving them special treatment, it being possible to have fine flowers of all of them at Christmas.

Robert Craig has purchased a fine late white, from Smith & Whiteley, which he has named *Kriskyling*, because he says that *Old Kris* and this flower both come at Christmas. It is much liked by those who have seen it.

There is a scarcity of blooming plants for decorative purposes. *Poinsettias* which are so effective are not to be had except in small sizes. Robert Craig's *cyclamens* have turned out very well and all that will be in flower are sold for the holiday trade. Mr. Harris has a few fine azaleas, but not nearly enough for the demand. There are some *Harrisi* lilies and these with callas, *stevias*, daisies, *primulas* and carnations, about make up the assortment.

The stock of ferns is also very low. Plenty are to be seen coming on, but those ready for immediate use are all bought up. *Adiantums* of all sizes are particularly scarce. This state of affairs ought not to be as firms at present prices with a ready sale, are surely a profitable crop.

The green carnation seems to be creat-

ing a small furor among the dudes. One of the daily papers in an editorial calls it the "sickly" green carnation, which is a very appropriate name, as being sickly and we are glad to say growing worse every day. We hope to be able soon to post the funeral announcement. Down on Eleventh St., they claim to have a plant in full flower, we believe it has been christened the *Edna McLean*. By the way the *Edna Craig* is getting better and larger every day; it seems to travel in a class by itself.

The streets are lined with Christmas greens and the city has taken on a holiday appearance. Many of the large store fronts are elaborately decorated, and in some the interior has also been trimmed with light greens. The most elaborate decoration is at *Wanamaker's*, where nearly all the pillars have been covered with white cedar bark about seven feet high, from which point to the ceiling have been nailed pine boughs making a neat and shapely tree. This is decorated with the goods of the counter at which it stands. There are about three hundred and fifty of these trees or pillars covered in this way and the effect is very striking.

The demand for holly and mistletoe seems to be on the increase and from present appearances more will be sold this season than ever before. Letters from backwoods people have been received for some time by florists here, wanting to sell fine holly, mistletoe, etc., but in nearly every case it has been, "how much will you give for it?" "what is it worth to you?" etc., etc. One party shipped a large case of very fine (?) mistletoe costing the florist \$1.50 for expressage, which when opened failed to show a berry. It is very seldom that bargains are picked up in this way, good holly and other Christmas greens are worth all that are asked for them by reliable dealers, and all disappointments are avoided by purchasing of them.

S. S. Pennock has moved his business to more commodious quarters in the same building. He has now a fine store and every facility for doing a good business. Sammy should not let this opportunity slip by to become better acquainted with his customers. We read an account of a little affair that took place at Buffalo recently to which we respectfully refer our worthy friend.

K.

Boston.

Trade in cut flowers is very quiet, and if it were not for the shortened supply coming in results to growers would be very discouraging. The flower buying public seem to be reserving all their resources for the holidays. It is to be hoped that they will not be frightened into another month of inactivity by an unreasonable inflation of prices for Christmas.

Growers are solemnly asserting that they are off crop and will have almost nothing to cut for the holidays, but the story has an old familiar sound and by the time the great occasion comes round it will probably prove to be an old acquaintance which has done duty for so many years.

A pleasant event of the past week was the presentation of a gold watch and chain to Mr. David Allan by his friends. A former similar gift was lost in the recent disastrous fire and Davie's admirers could not think of having him deprived of the ability to tell the time of day, or night. The occasion came off at the Boston Tavern, on the evening of December

15. Edward Hatch presided at the table. Some difficulty was experienced in finding the beneficiary and the supper was nearly all eaten by the time Davis was found and brought in. The evening was spent very pleasantly, and a new remedy for bashfulness applied by Mr. Hatch was eminently successful in bringing out speeches from nearly every one present. The remedy is highly recommended for similar occasions elsewhere. Mr. Hatch has no patent on it, and will doubtless be very glad to give the formula to any who may request it, for a consideration.

Prices quoted in advance for Christmas show a sharp advance in price of roses, most of them being double priced figures or even more. Carnations and violets are also advanced considerably. Other varieties remain as before, with few exceptions.

Chicago.

Christmas sales are now in order, but the market is a quiet one. For one thing, all classes of flowers are very scarce, and wholesalers who do a large trade in outside orders find reason to complain bitterly. The orders for many distant points must be shipped at least three days before Christmas, and there is a terrible deficiency of stuff to fill these orders. There is reason to believe that many growers still persist in the pernicious practice of holding back their stuff, and the commission men are righteously indignant thereat. Stuff which ought to be in the market Tuesday or Wednesday, to be shipped out of town, is held back until Saturday, and then the growers will complain because it is not sold to the best advantage.

Beauties are fine, but a good many of the roses are poor through continued dark weather. The supply is decidedly short. Carnations are pretty good, but, like the roses, are short in quantity. More violets are coming in, but not nearly enough for the demand; they are mostly good in quality. This flower still continues to be in very great demand.

Some fine *Lilium Harrisii* are grown by O. P. Bassett, who sent in his first lot November 23. It could hardly be quoted in the market before the present time, as Mr. Bassett's supply was so eagerly sought for, and at time of writing there is not enough to nearly supply the demand. The same grower sent in his first valley December 20.

Holly is plentiful and in good demand, but there is a scarcity in other Christmas greens.

The firm of Kennicott Bros. has now become an incorporated company, under the name of Kennicott Bros. Co. Two new members enter the firm, P. W. H. Sundmacher and F. A. Fritze, Jr. Flint Kennicott will be manager of the new concern and Mr. Fritze financier. Mr. Sundmacher will not appear actively in the business.

Baltimore.

The weather is not such as to promise any great assistance in getting up the needed crop of flowers during the coming week, as it is about as cloudy and disagreeable as possible, not to be a thoroughbred blizzard, for which it lacks frigidly, the temperature not running much below 32°.

The chances are for an abundant supply of Romans and smilax, but not much besides. Callas and violets seem particularly likely to be short. Buds and car-

nations are coming in freely, and the city is already pretty well filled with holly and Christmas greens of all kinds.

At the last meeting of the club Messrs. Akehurst, of White Marsh, Chas. Rickers, of Waverly, and Chas. F. Feast, of Baltimore, were added to the roll of active members, and Mr. Hy. Taylor, of Waverly, to that of the passive or associate members.

The first business transacted was passing a vote of thanks to Nathan Smith, Adrian, Mich., John McGowan, Orange, N. J., Roht. Craig, Philadelphia, Pa., N. Studer and Mr. Ley, of Washington, D. C., and Pitcher & Manda, of Short Hills, N. J., for their beautiful and valuable exhibits at the chrysanthemum show. The first debate of any length was on Mr. Moss' motion "that a pledge be drawn up binding every signer to grow not less than six plants of chrysanthemums for the show of 1893, and passed around for signatures." After a vigorous show of opposition the motion was carried and the signatures of a majority of the members present secured.

The next thing was the report of the exhibition committee, which was read by the Financial Secretary, Mr. F. G. Burger, and the showing was so astonishing as to nearly knock the boys over. Suffice it to say that all previous exhibitions of a horticultural nature held here dwindle into insignificance in comparison with this last brilliant effort and success. A call for a vote of heartfelt thanks to the committee by Mr. Chas. Hamilton was responded to with a yell.

The battle of the evening then took place, over the motion of Mr. Hy. Bauer, to hold a show in spring. The putting of the motion by the chair was the signal for a fierce attack, led by Mr. E. Herrman, which was met by a stubborn resistance headed by Mr. Theo. Eckhart. After a very elaborate debate and argument, participated in by nearly every member present a vote was taken, showing a very decided opposition to a spring show, by a majority of the members. The fact is, there has never been any enthusiasm worked up over a spring show, either by the public or the trade, and all that have been held here have been more or less decided failures; but, for all that, if all the club would go at it with a will there can be no doubt of making it a success, only less brilliant than the fall show.

The chrysanthemum season for this year is over, and the question of who will grow for the next exhibition is vexing some already. No doubt there will be enough to fill the hall no matter how large it may be, and no doubt every man in the trade can spare time and space to grow at least one dozen show plants. If every member of the club grows twelve plants as well as he can we will have the greatest show next fall we have ever had.

The old complaint against the amateur-professional grower of cut flowers crops up every year, particularly when there is more or less of a glut. It is useless to argue that every man has a right to grow what he pleases and find a market for it, if he can; the man who has invested all his savings, or credit, or both, in one or two greenhouses feels it a hardship to be compelled to compete in open market with the man who, with a competency safely invested, puts a few thousands of his unused interest into greenhouses and sells the product, or what he does not use himself of it, without any regard to the cost of production. If the material so produced were strictly first class it

might not be such a serious affair, but the result of forcing a lot of second class flowers on a reluctant market is generally to knock the bottom out of things, and make the man who depends on his daily sales for bread and butter feel personally aggrieved, though possibly not perfectly able to point out the exact injury, or suggest a just and effective preventive. If all dealers would refuse to buy from amateur growers it would lessen the evil, but that is to say it depends on all dealers acting together to remedy it, and the day when that will happen is not in sight.

MACK.

Buffalo.

We have only had a few hours sunshine in six weeks, which has been much against the production of good flowers, or quantity either. The only flower that can be called plentiful with us is Roman hyacinths and paper white narcissus. *Smilax* is quite scarce in this neighborhood. Good roses, especially American Beauty, are soaring high. A Main St. florist has been confined to the house the past ten days, suffering from a severe nervous attack, caused by fright. He was present when a box of Beauties (just received from New York) was opened. He had not seen the roses, but the invoice was on top and it read, "100 Beauties, \$75.00," but they were beauties in every respect. Good, fair flowers can be bought for less than this price.

It appears at this writing that the demand for flowers and flowering plants at Christmas will be as good or better than ever. Our store windows are gay now with plants. The favorite plants are poinsettias, begonias of the variety *incarnata grandiflora*, cyclamens, primulas and *Harrisii* lilies.

There is no let up in the use of holly and greens. Ground pine has run short. Most of the holly is well berried. The ground pine has a formidable rival here in the beautiful Allegheny laurel, *Kalmia latifolia*. Made into wreathing, it is worth double the price of the pine, but it is far ahead of it for rich decorations and is clean and keeps its glossy green color longer than anything else. Many of our merchants are decorating their windows with holly, etc., and others have given orders for elaborate decorations in our line. It all helps greatly.

It may be a pointer to some growers to know that Minnie Wanmaker is one of the best keeping chrysanthemums. I saw at Scott's houses this week a few dozen plants of that variety in 6-inch pots, each with 8 to 10 fine flowers, that were bound to be good for Christmas, or later.

Joe Rebstock has a bench of American Beauty which is a perfect little gold mine to him. He says he will build half a dozen houses next spring and plant them all with Beauties. By-the-by, those who have had the pleasure of seeing Joe exquisitely attired, driving his new 2:30 colt, came to the conclusion that there must be a gold mine somewhere. But florists should run no risks with high mettled trotters. This celebrated nag caught sight of one of the "get there" holly branches this week so thickly covered with berries that he ran up on the sidewalk and smashed a big window.

George Asmus, our champion bowler, has been very ill with an attack of heart disease, but is recovering slowly, and we hope permanently. G. S.

YOU CAN NEVER INVEST \$2 to better advantage than in a copy of our new trade directory and reference book.

Toronto.

Today the sun has condescended to show us the light of its countenance. We have seen so little of it lately that it seems to make things quite cheerful. Rose growers are praying that it may keep fine until Christmas, which brings to my mind the old doggerel "When the devil was sick the devil a saint would be, when the devil got well, the devil a saint was he." Of course I would not for a moment insinuate that rose growers are not saints all the time, but these ideas will strike one sometimes. There has been no snow here yet worth mentioning.

Mr. J. E. Killen, representing E. H. Hunt of Chicago, paid a flying visit to this city last week.

The way chrysanthemums keep coming in this year is surprising; if they keep it up a little longer they will be a big feature in Christmas decorations.

Store-keepers say that business has improved considerably lately and that the indications point to a pretty good holiday season.

Bets in a small way are being freely made on the result of the election for President of the Gardeners' and Florists' Association for 1893. Is it not a mistake to have so long between the nominations and the elections? Why could it not all be done the same evening.

The Association will probably at its next meeting suggest a man to the World's Fair Commissioner for Ontario to superintend the Ontario horticultural exhibit, and the appointment will not doubt be made shortly.

The Association at its annual meeting will show a strength of 126 members with 93 fully paid up and 9 honorary members; not so bad for a three-year-old.

Chrysanthemum show accounts will show a deficit of about \$180; this was taken out of the funds of the Association, and still there is a balance left. There has been some doubt expressed as to whether these funds ought to be used for the purpose, but it is difficult to see how the club could spend its money to better advantage, although of course there are plenty of other ways it could be well spent and everybody would be glad to have seen a surplus instead of a deficit. E.

Worcester, Mass.

We are having a steady run of trade now, flowers are plenty, prices fair and everybody ought to be in good humor. Balls, receptions and socials follow each other in quick succession making things very lively at times. The two most important events of the week were the Police ball, which was decorated prettily by Wesson, and a large reception given by a prominent lady in the "400," for which Lange decorated very elaborately.

Chrysanthemums have dropped off very suddenly, only one man still cutting good blooms.

Brides, Merrets, Perles and Gontiers are coming better and more of them and violets are also more numerous. Mr. Cook, of Shrewsbury, who grows carnations for Boston markets, says his carnations are fine, cutting about 6,000 a week; he grows Wilder, Spray, Fisher and Florence.

Mr. E. W. Breed, of Clinton was in town the other day and reports trade as very good; he had hard luck with his violets, pitched them all out on account of the spot.

The weather still continues to be bright and mild, we have had no severe storms as yet and it looks as if we were to have a green Christmas. SEEDLING.

Montreal.

Business has been fairly good here lately. Mums are about finished. Roses will only be in moderate supply for the holidays, and owing to the long spell of very dull weather most of them are off color. The same may be said of carnations. Bulbous stuff will be in quantity. Every one is looking forward to a good Xmas trade.

Wiltshire Bros.' store was slightly damaged by fire a short time ago. T. Ware, a grower outside the city, lost a house of roses through gas from the furnace. Tom claims damages from a water company who were blasting just outside his lot, a lot of stones from the blast going down the chimney and stopping the draught.

Campbell's store was broken into and a large quantity of flowers stolen last Friday night. No clue to the thief so far.

The regular meeting of the club last Tuesday night was well attended. G. Copeland read a paper on chrysanthemums, which was short and to the point.

The annual dinner is to take place the night after the annual meeting (which takes place January 24).

It was decided not to attempt to hold a show the coming spring as they have always been failures financially.

Mr. J. A. Simmers, of Toronto, was in town recently on his first visit to this village. J. B.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a practical florist with 6 years' experience; single. Address: J. L. SHEA, Anchorage, Ky.

SITUATION WANTED—By florist, steady and reliable, well up in design work, growing or selling; not afraid of work. Address: F. BECHTOLD, 125 McMurich St., Toronto, Ont., Canada.

SITUATION WANTED—As foreman of first-class commercial place by florist of extended experience; well versed in all branches from a violet to an orchid. Good references. Address: C. CYRUS, care American Florist, Chicago.

SITUATION WANTED—By a young German, age 24, 14 months in business where they grow and cut flowers and market plants, would like to extend his knowledge; not afraid of work. Address: PHILIP KRICHEN, 330 Washington St., Williamsburg, Pa.

SITUATION WANTED—By a practical and scientific florist, an eminent floral artist and a decorator; well up in growing stove and greenhouse plants, ferns and chrysanthemums, and a good manager; address: Box 836, care Clause, Ravenswood, Ill.

SITUATION WANTED—As foreman or manager in large commercial place; thoroughly experienced in stove, greenhouse, flowering plants, also roses and ornamentals; distance no object. Best of references from leading firms of Europe and this country. H. care American Florist.

SITUATION WANTED—By respectable young man S with excellent references, thoroughly experienced in forcing of roses, bulbs, cut flowers and growing of general stock; good hand at making up; well capable of managing commercial place or department. Florida preferred. Address: Prosperity care American Florist.

SITUATION WANTED—By a German gardener, S thoroughly experienced in indoor and out work, including treatment of orchids, and used to office work; best of references. Eastern city preferred. State wages, 8 years' experience in Germany. England and since March in this country. N. T. care Am. Florist, Chicago.

WANTED—A young man, with some experience, to work in greenhouse, State wages, including board. GEO. S. BELDING, Middletown, N. Y.

WANTED—200 each young Fleus, 12 to 24 inches, and Asparagus plumosus, 4 in. Address with price, B K, care Vaughan's Seed Store, Chicago.

WANTED—Young man to work in a store, accustomed to working on floral designs; reference required. Address: JOHN COVINS, Hartford, Conn.

WANTED—If William Lauf, formerly of Summerdale, Ind. Chicago, will send his address to R. care of American Florist, he will hear something to his advantage.

WANTED—A steady and sober man who understands firing and general work in greenhouses, one not afraid of work. State experience, references and wages wanted. Steady employment to good man. Married men preferred. Address: BOLESLAW, care B. & R., 49 West 24th St., New York.

TO RENT—Well stocked greenhouses, 5 acres ground, located at Bowmanville, Apply W. S. POWERS, Room 13, 84 Washington St.

FOR SALE—Florist business, 5 houses, 10,000 square feet of glass, fine stock, good location, good market, best of reason for selling. Address: B. W. SMITH, West Haven, Conn.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1893. Address: H. care J. C. Vaughan, Box 68, Chicago, Ill.

HELD AT PRIVATE SALE.

Property of forty-five acres, elegant improvements and conveniently located, a well paying business established in Plants, Bulbs, Seeds, Cuttings; five greenhouses 100x24 feet, heated by hot water, and everything in the best of condition. For particulars write

JOHN J. GREEN, West Chester, Chester Co., Pa.

FOR SALE.

Ten greenhouses, about 15,000 square feet of glass, with two acres of land, and stock for sale very cheap. The houses are in good condition, situated in one of New England's best localities, with a large and extra good home market, heated by a first-class steam plant, cost \$1200, pots and implements. This is a fine opportunity for one wishing to buy an Established Business, as the property is in good condition, ready for the coming season, and will be sold as the present owner has other interests to look after.

For further particulars apply to

N. D. WINTER, No. 5 Elm St. reet, Springfield, Mass.

FOR SALE.

One of the best equipped and arranged Florist stores in upper New York City. Conservatory attached. Must be seen to be appreciated. References if necessary. Address.

64 W. 125th St., NEW YORK CITY.

"CHRY-COLA"

COLEUS. Rooted Cuttings.

BEST VARIETIES. BEST STOCK.

75 cents per 100; \$4.00 per 1000. Cash with order.

FUCHSIAS are all ordered to Jan. 10th.

Send for Chrys-Cola Price List.

S. B. FIELD, Roselle, N. J.
Mention American Florist.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100, \$6.00, sent by mail.

BRAUER & RICHTER,

MCCONNELLSVILLE, O.

KENTIAS { BELMOREANA, FORSTERIANA,

\$3.00 to \$15.00 each.

John Burton,

CHESTNUT HILL, PHILADELPHIA, PA.
Mention American Florist.

ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. Price, \$2.00.

AMERICAN FLORIST CO., CHICAGO.

News Notes.

MADISON, N. J.—Mr. J. D. Burnett mourns the loss of his wife, who died on Nov. 26.

FOND DU LAC, WIS.—Mr. Robert Hantze and Miss Mary Benning were married Nov. 30.

SPRINGFIELD, MASS.—The Hampden County Horticultural Society will hold an Easter flower show March 28 to 31, 1893.

ST. PAUL.—The park commissioners have taken out a permit for the erection of a conservatory in Como Park, the estimated cost of which is \$10,500.

WESTERVILLE, O.—S. S. Sked, the veteran florist, died recently of paralysis of the heart. His son, J. F. Sked, will continue the business at the old stand.

PARKVILLE, L. I.—John Jetson, employed by Wm. Maloney, a florist at Washington Cemetery, was run over and instantly killed by a train on the night of December 10.

OTTAWA, ONT.—A meeting of the florists and gardeners of the city was held Dec. 8 to discuss a project for the organization of a horticultural society. No definite action was taken but a subsequent meeting was arranged for.

CANON CITY, COLO.—E. A. Howard has just finished five new houses, 4 being 10x100 each, and one 16x100. This gives him a total of 13,000 square feet of glass. He intends to build five more houses in the spring, to be 10x100 each.

RICHMOND HILL, N. Y.—Axel Lindstrom has just finished five new houses, 4 being 10x100 each, and one 16x100. This gives him a total of 13,000 square feet of glass. He intends to build five more houses in the spring, to be 10x100 each.

HENPSTEAD, N. Y.—C. G. Lescano, who has been in the florist business here for the past two years, has disappeared, leaving behind him debts amounting to more than \$3,000, for which his creditors have nothing to show except a lot of checks which are worthless.

DENVER, COLO.—A recent addition at the City Park is a pair of greenhouses 103x18 each, connected with a neat brick office and potting room, etc. The buildings were designed and erected by G. J. Braun. Further additions to the glass surface at the park will be made in the future.

NASHVILLE, TENN.—G. W. Currey & Co. are now settled in their new Currey Block, a handsome 5-story, pressed brick structure at the corner of Church and Spruce streets. Their elegant store suffers none in comparison with the best in the large northern cities. They are also enlarging and improving their extensive greenhouses in the suburbs.

MINNEAPOLIS—The annual meeting of the Minneapolis Florists' Club was held at the West Hotel, Dec. 10, and officers for the ensuing year elected as follows: J. S. Gray, president; M. C. Allison, vice-president; R. Shepard, secretary; E. Nagel, treasurer. No other business of importance was transacted.

SAN FRANCISCO—Mr. Wm. Henshaw has resigned his position as foreman of the Sherwood Hall Nurseries at Menlo Park. Before his departure the employees of the nursery presented him with a handsome gold watch as a token of their esteem and appreciation of his gentlemanly bearing toward them during their association.

T. J. CORBREY & CO.

WHOLESALE AND COMMISSION FLORISTS,

45 LAKE STREET,

CHICAGO.

(IN CHICAGO CUT FLOWER EXCHANGE.)

Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.

10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

Siebrecht & Wadley,

ROSE HILL NURSERIES,



NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,

and New Plants.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 206 Greenwich Street, New York City.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854. Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

SURPLUS ORCHIDS FOR SALE

SPECIMEN DENDROBES

of several kinds, in perfect health, with 40 to 80 buds each, with many new ripe ones for flowering.

Also many other kinds for sale to make room, or exchange for cool house Orchids.

DR. GEO. W. LITTLE,
GLENS FALLS, N. Y.

HARDY PLANTS.

We have them. Write us about it.

Azalea nudiflora, Magnolia glauca, Kalmia latifolia, Xerophyllum, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs.

Wholesale Trade List FREE. Send samples of what you want

ROGERS NURSERIES, Moorestown, N. J.

DES MOINES, IA.—J. F. Marshall is now operating a cut flower store in the heart of the city—312 Fifth street. Flowers are plentiful and prospects are for a good cut of flowers and a surplus of Roman hyacinths at the holidays.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House),

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express promptly filled.

H. L. SUNDERBRUCH, WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG, COMMISSION • FLORIST.

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application.

C. A. KUEHN, (Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

SMITH, The Florist,

GROWER OF

Fine Roses & Other Cut Flowers

WHOLESALE AND RETAIL,

77 S. 7th Street, MINNEAPOLIS, MINN.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Mention the American Florist when writing to advertisers on this page.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.: Sunday 2 P. M.

NILES CENTER FLORAL CO.,
 Wholesale Dealers in
Cut Flowers
 AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

We are now located at our new quarters in
 Chicago Cut Flower Exchange, and are pre-
 pared to fill orders in very best manner. Give
 us a trial order and see how we please you.

M. OLSON, —*
Wholesale FLORIST,
 66 WABASH AVENUE,
 Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS

Loe Roche & Stahl
 N. E. CORNER
 13th & Chestnut Sts.,
 PHILADELPHIA.
 Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th St.,
 Philadelphia, Pa.

©Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 20.	
Roses, Goutiers, Niphotos, Perles	2.00/6 4.00
" Waterville, Cusin	3.00/6 8.00
" Mermets, Brides	3.00/6 8.00
" La France	15.00/25.00
" Meteor	15.00/25.00
" Beauty	40.00/75.00
Carnations	1.50/6 2.00
Violets	1.50/6 2.00
Valley	6.00
Roman Hyacinths	1.50/6 2.50
Mignonette	4.00/6 10.00
Cyrtipediums	15.00/20.00
Cattilias	50.00
Smilax	20.00
Asparagus	50.00
Adiantums	50.00

BOSTON, Dec. 20.	
Roses, Niphotos, Goutier	3.00/6 4.00
" Bride, Mermets, La France	4.00/6 8.00
" Perle, Sunset, Wootton	4.00/6 6.00
" Meteor	10.00/15.00
" Beauty	25.00/75.00
Carnations	1.50/6 2.00
Valley	6.00
Hyacinths	2.00/6 4.00
Narcissus	2.00/6 4.00
Violets	1.25/6 1.75
Mignonette	1.50/6 5.00
Callas	5.00
Bouvardia	1.50/6 2.50
Stella, unicolor	12.50
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

PHILADELPHIA, Dec. 20.	
Roses, Beauties	35.00/60.00
" Belle	75.00
" Laing	20.00
" La France	10.00/12.00
" Mermets, Brides	10.00/12.00
" Meteor	8.00/10.00
" Cusin, Waterville	6.00/8.00
" Hoste	8.00
" Perle	6.00
" Goutier	4.00/6 5.00
Valley	6.00
Carnations	2.00
Hydrocotyle	2.00
Bouvardia	2.00
Violets, double	1.50
" single (bunches)	5.00
Romans	3.00/6 4.00
Narcissus	4.00
Adiantum	1.00
Smilax	15.00/20.00
Asparagus	75.00

CHICAGO, Dec. 20.	
Roses, Goutier, Niphotos	8.00/12.00
" Perles	8.00/15.00
" Mermets, Bride, Wootton	15.00/20.00
" La France, Albany	15.00/25.00
" Bennett, Meteor	25.00/30.00
Carnations, short	2.00
" long	2.00/6 4.00
" fancy	5.00
Callas, Harris	20.00/25.00
Romans	3.00/6 5.00
Narcissus	8.00
Valley	8.00
Marguerites	1.25
Violets	2.00/6 2.50
Adiantum	1.00/6 1.50
Smilax	15.00/18.00
Common ferns (1000)	2.75

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies

—WHOLESALE—
 67 Bromfield Street, BOSTON, MASS.
 Mention American Florist.

N. F. McCARTHY & CO.
 Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.
 We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
 —WHOLESALE—
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
FRANK D. HUNTER, JAMES PURDY
 Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
 117 W. 30TH ST., NEW YORK.
 The Oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRs,
 —WHOLESALE—
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
 NEW YORK.
 BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
 NEW YORK.
 The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist
 Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
 NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will
 be 20 cents per string. Quality first-class. Prompt
 attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers
 on this page please mention the AMERICAN
 FLORIST.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DOW, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

Was "The Seedsman's Prayer Answered?"

"A seedsman's prayer answered" is a good story and well told. Had you seen that *select seed party* in session and heard the many weighty arguments advanced in that seed deal you never would have forgotten it.

There was no difficulty in the way about money matters; we were offered long credit, all we wanted, and more.

Had the Californian stuck to business and not gone to praying, the result might have been different. During the praying recess of the session the two S. S. began to compare notes, and came to the conclusion that they had undertaken a contract that they could not complete, i. e. "to clean him out," as some other lord would turn up in different shape than had been previously talked; we got afraid there was more dead weight in this country and in Europe then we could carry or wanted to try to carry, and that the first trade might necessitate a second.

At the second meeting each freely agreed to call the trade off, each feeling that that prayer, or the time it occupied, had saved us. If you could publish the papers concerning onion seed in the local telegraph office between that date and Dec. 1st, some of us would be amused, if not profited. The S. S. were delivered out of the hands of the Philistines. ORIENT.

J. M. KIMBERLIN AND SON., Herbert V., passed through Chicago west bound Dec. 20. The latter has been quite ill with diphtheria but is improving. Mr. K., goes west with "only 100 pounds of Red Wethersfield onion seed left"—mostly for seed stock. Says however that most houses have taken one or two good nibbles "to average up the cost," but do not yet think they have too much. He bids a satisfied *vale* to the *clicet* east.

ISAAC TILLINGHAIST, for ten years post-master at La Plume, publisher of the *Seed Time and Harvest and Seed Grower*, in Scranton, Pa., was arrested yesterday charged with making false returns of the business of the postoffice —N. Y. *Morning Advertiser*, Dec. 15, '92.

MESSRS. HOWE & HAMILTON, Minneapolis, have admitted into their firm Mr. B. L. Grant, of Hudson, Wis., who is represented to be a seed grower and will furnish additional capital to the firm.

WATCH AND PRAY is the motto of the onion seed growers now. A considerable amount of both is said to be necessary.

WE HAVE secured a special club rate with the publishers of *Gardening*, and can supply it and the AMERICAN FLORIST together to one address for \$1.75.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

OSKAR KNOPFF & CO.,

SEED GROWERS,

Erfurt, = Germany,

FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

The Trade SEED CATALOGUE of

C. PLATZ & SON, ERFURT, PRUSSIA

Will be mailed to all applicants, by their Agent,

C. RAOUX, 296 Pearl Street, New York.



BEST GERMAN FORCING PIPS

Price: \$9 the 1000,
\$20 the box of 2500,
Less ten per cent. for prompt cash.

AUGUST RÖLKER & SONS,
NEW YORK, P. O. Station E.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered for sale from cold storage.

2,500 to 5,000 Pips at \$8.50 per 1000
7,500 to 10,000 Pips at 8.00 "
12,500 to 25,000 Pips at 7.50 "

C. A. ABEL & CO., New York.
P. O. Box 920.

1st QUALITY.

We have gained the reputation of having the finest TUBEROSES in the world, and if you would have the **VERY BEST**, send to us for sample. Two important items: quality the best. Price the lowest. Send to-day for FREE sample by mail POSTPAID. Address

H. G. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.

SEEDS! PLANTS! BULBS!

Everything appertaining to the Farm and Garden, of the best and choicest quality. PRICES RIGHT.

Catalogue on application.
WEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

75,000 IPOMOEA PANDOURATA

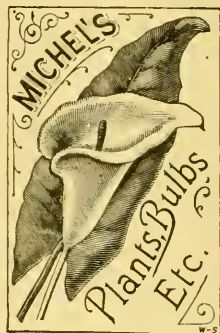
(Day-Blooming Moonflower.)

ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 100 rate. Per 1000 \$12.50 at 100 rate.

Orders booked and shipped when desired.

Orders booked for ACHILLEA "The Pearl", at \$25.00 per 1000.

JAMES FROST, Greenville, Darke Co., O.



Write for wholesale list.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS.

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.



TRY DREYER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. PRIZE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREYER, Philadelphia

WHY You Should Grow Mushrooms.

Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.

During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.

Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or out-houses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.

First get spawn that will grow, it must be fresh, well spawned, and in good condition. Gardiner's Celebrated English Mushroom Spawn is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, "Mushrooms for the Million," Mailed free. Falconer's "Mushrooms and How to Grow Them," Published at \$1.50. (Gardiner's price \$1.25 post free.) Robinson's "Mushroom Culture," 50 cts. post-paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, \$5.00 per 100 lbs. Special rates to large growers. Address all correspondence to 21 North Thirteenth Street, Philadelphia, Pa.

JOHN GARDINER & CO.

Mention American Florist.

GOVERNOR RUSSELL

The finest white Carnation ever introduced.

CARNATIONS**ROOTED CUTTINGS**

of all the leading varieties. Will be ready January 4, 1893.

R. T. LOMBARD, Wayland, Mass.

CARNATIONS**ROOTED CUTTINGS.**

Send for Price List of all the leading varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.

ROOTED CUTTINGS

Of the Best Old and Most Promising new varieties of

CARNATIONS.

Write for a catalogue and send list of wants for an estimate.

J. C. Styer,

CONCORDVILLE, Pa.

ROOTED CUTTINGS.**Carnations.**

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan and others. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention. Write before placing your orders.

LIZZIE MCGOWAN now ready, at \$2.00 per 100; \$15.00 per 1000.

SEEKING IS BELIEVING. CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address

H. E. CHITTY, Paterson, N. J.

A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of Aurora at \$15.00 per 100, and Golden Gale at \$8.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Cartledge	Nancy Hanks
Pearl	Dorner
Golden Triumph	Mrs. Hill
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pearson	White Wings
Orange Blossom	Edwin Lonsdale
Angelus	American Flag

EDW. SWAYNE, Carnationist,

KENNETT SQUARE, PA.

Mention American Florist.

CARNATIONS**ROOTED CUTTINGS.**

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. F. Dreer, J. R. Freeman,

and many other varieties; fine, healthy stock, ready January after.

HYBRID PERPETUAL ROSES

50 Paul Neyron, strong plants... \$10.00 per 100.
30 other leading varieties... \$10.00 per 100.
\$10.00 per 1000.

CHRYSANTHEMUMS.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. Send for price list.

WOOD BROTHERS,

Fishkill, N. Y.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. FENNOCK,
The Pines, Kennett Square, Chester Co., Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Miscellaneous.

GERANIUMS in over 50 of the best new and old sorts. Transplanted cuttings at \$2 per 100 or \$17 per 1000; rooted cuttings from the sand, per 100 \$1.50, per 1000 \$12, mixed, per 1000 \$10.

PETUNIA, finest picked from many seedlings of the best strains. Double Grandiflora fringed, per 100 \$3.00. Single Grandiflora fimbriata and California Giants, per 100 \$2.00.

SCARLET SAGE. A new very dwarf that blooms well in small pots is Wm. Bedman, price per 100 \$5.00. A Wettig, a compact sort and an extra early bloomer, price per 100 \$2.00.

COLEUS in 28 of the best bedders, Red and Yellow Verschaffeltii, Golden Bedder and Firebrand in extra quantity, also that grand, new sport, Fire Crest; price per 100 90c, per 1000 \$7.50.

ALTERNANTHERA, Red, Yellow, Pink and Orange, per 1000 \$6.00.

SEEKING IS BELIEVING. CALL AND SEE ME OR SEND FOR A LIST.

A FULL HAND BEATS A GREAT PAIR.**DORNER'S SEEDLINGS.**

Wm. Scott,
Diaz Albertini,
Elizabeth Reynolds, \$100.00 per 1000.
Richmond, \$75.00 per 1000.

Purdue,
Spartan, February Delivery
Wabash,
Dr. Smart, Orders booked now.
Blanche,
Western Pride.

Cottage Garden Greenhouses,

EAST MORICHES, N. Y.

C. W. WARD, Manager,
Mention American Florist.

ORANGE BLOSSOM CARNATION.

One of the leading new varieties, and an immense bloomer; received a Certificate of Merit in 1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.
MAY FLOWER, splendid variegated, \$2.50 per 100.

THE JENNINGS STRAIN OF PANSIES, trade packet, 2000 seeds, \$1.00.

E. B. JENNINGS,
SOUTHPORT, CONN.

ROOTED CUTTINGS OF CARNATIONS

All the leading varieties.
Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CUTTINGS OF CARNATIONS

Ready now in large quantity, including GRACE BATTLES, EDNA CRAIG, DAYBREAK, PURITAN, AURORA, and fifty other best standard varieties.

Trade price list sent on application.

JOSEPH RENARD, Unionville, Chester Co., Pa.

Short Span to the South.

In spite of adverse criticism this method of building seems to be gaining a good many friends. Mr. Fred Dörner, the carnation specialist, of Lafayette, Ind., has put up two houses in this way during the past autumn, and is so well pleased with it that any further building will be done in the same way. It is noticeable that when two houses are together that at the north side is far less shaded where the house in front has the short span to the south than where the ordinary position is observed. This is especially the case on a dull winter day, and judging from the flowers produced in such houses there can be no question of their utility.

These houses at Mr. Dörner's are built with butted glass, which he finds very satisfactory. Being troubled by drip which runs down the groove in the sash-bar, he has a small tin gutter run along the wall-plate, at the foot of the sash-bars; this collects all the drip, and carries it outside.

A National Flower.

Congress has had the national flower question brought before it. Congressman Butler, of Iowa, has introduced a resolution that the pansy be adopted as the national flower and that the stars on the national flag be arranged in the form of this flower. The resolution also provides that the change in the flag be made at the time of opening the World's Columbian Exposition at Chicago.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORISTS, NURSEYMEN'S AND SEEDSMEN'S AGENTS,

—For the following—

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedman, Haarlem, Holland. Choice Dutch Bulbs. Novelties, etc.

PERRE SEBIRE & SONS, Nurserymen, Paris, France. Roses, Evergreens, Fruit and Forest stocks.

ERNST RIEBSCHNEIDER, Florist and Seedman, Altona, Germany. Berlin Lily of the Valley a specialty.

EDM. VAN COPPENHOLE, Nurseryman, Ghent, Belgium. Established 1850. Large culture of Azaleas, Azaleas Indica and Mollis, Bay Trees, Begonias, Gloxinias, Palms, Rhododendrons, etc., etc.

ALPHONSE ROCHE, Orléans, France. Extensive and special plantation of Immortelles and dyed in all colors and shades.

ERNST RIEBSCHNEIDER, Florist and Seedman, Altona, Germany. Choice selections of German Flower Seeds. Also of Palms, Grass and Garden seeds. Best Sugar Beet Seeds a Specialty.

(Catalogues (mention which) free on application when received for distribution. All orders for these houses should be plainly written and addressed to us.)

EARLY "MUN'S" CATCH THE "MUN." There are still some left of the

STANDARD SORTS advertised on Page 376 of the "Chrysanthemum Number."

JOHN CURVEN, JR.,
Money Order Office Villa Nova, Pa.

Palms, Ferns, Rare or Fancy Foliage Plants; ORCHIDS AND GYPRIPEDIMUMS IN FLOWER; FOR HOLIDAY TRADE.

* * * * *

Send in your list of wants, or call and examine
our unsurpassed stock of these plants.

PITCHER & MANDA,

UNITED STATES NURSERIES,

SHORT HILLS, N. J.

GARDENING

* * * To all Florists. * * *

Do you know that this new paper, printed twice a month, will answer seven days in a week all technical questions, asked by dozens of your customers in regard to the treatment of their plants, which, to answer each verbally, would require many valuable half hours. Why not tell them "Here is a paper at \$1.00 a year, telling you more in each issue than I can do in an hour." You save time, make a commission on the subscription and please your customer. Think of it and act as our agent.

GARDENING COMPANY, Monon Building, Chicago.

Rooted Cuttings.

Carnations, New Scarlet, Emily	Per 100
Pierson.....	\$3 00
Leading varieties.....	1 25
Violets, Russian and Neapolitan.	
Coleus and Alternantheras in var.	

A. N. PIERSON, Cromwell, Conn.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

100,000 VERBENAS. THE CHOICEST VARIETIES

IN CULTIVATION.

Fine pot plants \$2.50 per 100; \$20.00 per 1000 Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

CHRYSANTEMUMS.

FINE STOCK PLANTS.

Crown of the standard varieties, 20 cents each.

WHITE.

Ivory
Domination
Minnie Wanamaker
Mrs. Langtry
Frank Thompson
L. Canning
Mrs. A. Hardy
Mountain of Snow
Yonitza

YELLOW.

H. E. Widener
W. H. Lincoln
E. G. Hill
Goldball
Mrs. J. C. Price
Auricle
Kloto

Miss M. Weightman

PINK.

Mermaid
V. H. Hallock
Waban
Eda Prass
Mrs. Irving Clark
Mrs. Fodder
Mrs. D. D. L. Farson
John Good
W. Geyer
Louis Roehmer

RED AND BRONZE.

Cullingford
Elmer D. Smith
Edmond Andignier
Mistletoe
W. W. Cole

BROWN & CANFIELD, Springfield, Ill.

Mention American Florist.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

CHRYSANTEMUMS

CHOICE STOCK PLANTS.

MRS. E. D. ADAMS, FLORA HILL,
MRS. W. S. KIMBALL, MRS. J. G. WHILLON,
ADA MEVICKER, EDNA PRASS,
HICKS ARNOLD, MRS. ROBT. CRAIG,
ANNIE MANDA, MRS. GOV. FIFER,
MRS. SENATOR HEARST, YONITZA,
KREIGER, EMMA HITZEROTH,
LILLIAN RUSSEL, MARIA SIMPSON,
JOSEPH A. WHITE, MRS. J. WESTCOIT,
FRANK THOMSON.

AND MRS. L. C. MADEIRA.

The largest yellow Chinese incured variety. It is appropriately dubbed the Golden Ball. It should be in every collection.

Price, 50 cents each.

DAILEDOUZE BROS.,

FLATBAU, N. Y.

CHRYSANTEMUMS.

ROOTED CUTTINGS.

Lincoln, prize hybrids: Ada Spaulding, Domination, L. Roehmer, Hamilton and 20 other good market sorts, \$1.50 per 100; Jessica and Ivory, \$2.50 per 100. Ready for delivery Jan. 15th.

Address
J. G. BURROW,
FISHKILL, N. Y.

Foreign Notes.

Maranta rosea-picta is a species having oval leaves three to five inches long and about three inches broad; the color deep green with rosy midrib bordered with grey. A similar band traverses the length of the leaf near the margin, while the under side of the leaf is a rich purple. It is a neat dwarf grower.

Pandanus amaryllidifolius is a remarkable departure from the usual habit of this genus, being entirely destitute of spines. It has smooth arching leaves of a rich green, strongly suggestive of an amaryllis. It is slightly serrated near the tips of the leaves, but no more. This is a very uncommon variety.

Locomotive Boiler for Heating.

Can a common portable or locomotive boiler be arranged to use either steam or hot water. If any ready of the FLORIST has successfully used such a boiler in the above named way will please describe location of pipes, fittings, depth of boiler pit, etc., and thereby confer a favor.

SUBSCRIBER.

Glazing.

ED. AM. FLORIST:—Which is the proper way to lay glass? Should the concave side be uppermost or should it be the convex side? SUBSCRIBER.

[We believe it is generally considered best to lay the glass with the convex side up.—ED.]

Excusable.

When a man has paid a dollar for a big chrysanthemum bulb for his mantel shelf, and comes down in the morning to find the servant dusting the furniture with it, he may be excused if his language is not of the modest pompon order of architecture.—*Philadelphia Times*.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,
Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, C. L.

World's Fair.

We have obtained a quantity of the handsome colored lithographs of the

Horticultural
Building

of the World's Fair, at a special low rate, and will mail a copy, prepaid, in a tube, to any address on receipt of the price, now reduced to **50 cents**.

American Florist Co.,

322 Dearborn Street, CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Sherwood Hall Nursery Co.

Offices and Salesrooms:

427-429 Sansome St
501-503 Clay St.
SAN FRANCISCO, CAL.

Exporters, Importers and Growers of

Trees, Plants, Seeds, Bulbs.
WHOLESALE FLORISTS.

TIMOTHY HOPKINS.

GREENHOUSES.

NURSERIES.

SEED FARMS and
TRIAL GROUNDS
Menlo Park, Cal.

DWARF CALLA LILY "The Gem". A novelty of more than ordinary merit, seldom exceeding a height of 10 inches, and producing from a bulb no larger than an ordinary crocus, three or four perfect blooms. The great advantage in saving space must suggest to the intelligent florist that "THE GEM" is one of the things he cannot afford to be without. **STOCK LIMITED.** Prices, free by mail or express, per dozen, \$2.50; per 100, \$18.00.

Cosmos grandiflora, pure white, per ounce, 60 cents; per pound, \$6.00.

Cosmos grandiflora, mixed, per ounce, 50 cents; per pound, \$5.00.

Hollyhock, in separate colors, canary, cream purple, red, rose and white, each per oz. 75c.; per lb. \$7.50.

" choice mixed, per ounce, 60 cents; per pound, \$6.00.

Smilax, per ounce, 30 cents; per pound, \$3.00.

PALM SEEDS. Of these we can supply every desirable variety. Consignments constantly arriving. If interested, send for special list.

We are the People!
Who? KOFFMAN,
Where? WALDEN,
Orange Co., N. Y.
What? SMILAX

25c. a string; 20c. a string by the hundred; 15c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds

At \$1.25 per 100.

And he pays the Express.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

ROSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSEN, for forcing, 9.00
In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohau, Merville de Lyon, Perle des Blanchies, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Palms, Dracaenas, Araucarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French hardy hybrid Nymphaeas. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

**IF YOU WISH TO GIVE YOUR
BUSINESS A BOOM!**

PUT IN THE

SNOW GREST DAISY

It will help to cheer the winter's gloom,
And make the times go aisy.

Stock practically unlimited. All this **DAISY** needs is to be seen seen to be appreciated. It can **BLOW ITS OWN HORN** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar; 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—a few ounces left. 50 seed 30c.; 100, 50c.; 2 1/2 oz. \$1.50; 1/2 oz. \$2.50; 1/4 oz. \$4.00. Plants of same 10c. per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strain, in fine mixture, plenty of whites, intense crimsons and purples, with all the intermediate colors and tints, in packets of 100 seeds, 3c.; 2 1/2 oz. \$1.10; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose; you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds, 25c.

Double fringed Dianthus, fine strain, all colors mixed, trade packet, 2c. Rooted cuttings and small plants of our leading specialties later. Address, each with order, please, **J. C. GIBSON**, Woodbury, N. J.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists,
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

VERBENA SEED.

Mammoth Flowering. FREE.

This grand strain of Mammoth Verbenas has given perfect satisfaction to my many customers in the trade, and is justly claimed to be the finest in cultivation. Florists measure an inch in diameter, in immense quantities of the finest colors. Liberal trade pkt. 25 cents; 3 pkts. 60 cents; 6 pkts. \$1.00.

JOHN E. RUFF, Shiremanstown, Pa.

FRESH STOCK. SEASONABLE GOODS. NOVELTIES.

Silver Baskets. The latest novelty. A fine lot just received. The best selling goods on the market to-day. Demand unprecedented.

Celluloid Goods. New jardinières, pot baskets, and handle baskets in numerous styles and tasty designs.

New Crop Dried Flowers. All desirable sorts of dried flowers and grasses now in stock.


Wheat Sheaves. In this line we are the acknowledged leaders. Quality unexcelled.

French Metal Wreaths. Just in, per steamship Illinois, a splendid assortment of the highest grade goods. In metal designs we are the largest manufacturers in the United States, and can furnish from our factory any design to order at short notice.

WHOLESALE ONLY.

H. BAYERSDORFER & CO.,
FLORISTS' SUPPLIES,
56 N. 4th St., Philadelphia, Pa.

W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award whenever exhibited.



These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, \$3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch. \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.
AGENTS:—MARSHALL & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kandal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbush, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 8th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis.
J. A. Simmers, Toronto, Ont., Agt. for Canada.

Mention the AMERICAN FLORIST when writing advertisers on this page.

STOTT'S SYSTEM OF PRAYING AVES
KILLMRIGHT KILLS, INSECTS AND MILDWE
PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRIUTER
CHARGED WITH KILLMRIGHT, CONNECTED WITH FAUCET READY FOR USE WORKS EQUALLY WELL WITH A GARDEN ENGINE.



STOTT'S SYRINGE
CELL "A" CONTAINS THE KILLMRIGHT

TOTT'S PRAYER
END FOR
CIRCULAR AND TESTIMONIALS.

STOTT GARDEN IMPLEMENT COMPANY
136 LIBERTY ST. NEW YORK.

4,000,000
Hardy Evergreen Cut Ferns
ESPECIALLY FOR FLORISTS' USE.
SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.



FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.
Mention American Florist.

XMAS GREENS. BOUQUET GREEN, HOLLY,
LAUREL WREATHING, WREATH AND FESTOONING OF ALL KINDS.
Long Needle Pines, Palm Leaves and Crowns. Send for Price List, and order early.

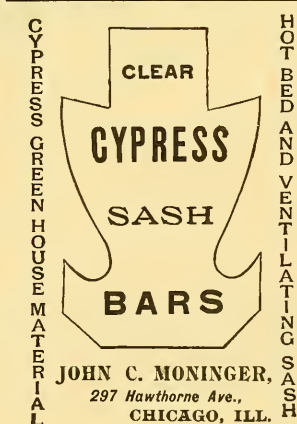
H. E. HARTFORD, 18 Chapman Place, BOSTON.

WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.
AGENTS:
J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.



HOLLY MISTLETOE
NOW READY FOR SHIPMENT.
Telegraph orders promptly attended to. . . .
Wisconsin Flower Exchange,
131 Mason Street, MILWAUKEE, WIS.

CLEAR CYPRESS SASH BARS
HOT BED AND VENTILATING SASH
GREENHOUSE MATERIAL
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.



LITTLE'S ANTIPEST.
— A —
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
— BY THE —
CALIFORNIA STATE FAIR OF 1890.
This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.
Send for Circulars and Price List.
R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.
Mention American Florist.

News Notes.

ASHEVILLE, N. C.—H. M. Parker has doubled his area of glass and now has about 2,000 feet.

OTTUMWA, Ia.—Mrs. F. M. Teter has added several new houses this year, and is making a specialty of roses.

THE KANSAS STATE Horticultural Society held its twenty-sixth annual meeting at Winfield, Cowley Co., Dec. 6-8.

COLUMBUS, IND.—Business not equal to last year, and the outlook not flattering. Sickness has virtually put an end to all society merry-making.

GREEN BAY, Wis.—H. M. Reinecke, of the firm of Reinecke & Wendorf, recently left for Europe, intending to remain abroad until spring. He was accompanied by Mr. Wendorf's young son.

CHAMPAIGN, ILL.—The State Horticultural Society, at its recent meeting here, elected the following officers: President, Henry Augustine; vice president, Dr. Daniel Berry; secretary, A. C. Hammond; treasurer, Arthur Bryant. The next meeting will be held in Springfield.

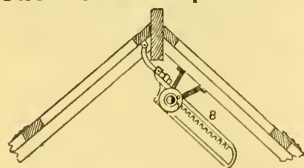
ANN ARBOR, MICH.—The annual meeting of the Michigan State Horticultural Society will be held in this city December 26 to 28. A change in date from the first week to the last week in December was made to secure the benefit of the reduced railway fares of the holiday season.

THE INDIANA Horticultural Society has changed the time of annual meeting from December to November, with the intention of giving a fruit exhibit at the next Indianapolis chrysanthemum show. The following officers were elected at their recent session: President, J. Hobbs; Secretary, W. H. Ragan; Treasurer, W. A. Workman.

EVANSVILLE, IND.—Business which has been virtually dead the past three months is rapidly improving. Good stuff is scarce and sells readily, and the countenances of the florists are assuming a pleasant appearance. Jno. H. Wade & Co., have recently added a new rose house to their extensive range. John is a hustler when he takes a notion to push things.

SEE WHAT THE FLORISTS SAY ABOUT

The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,

Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more order sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."

Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,

HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,

EVANSVILLE, IND.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

713 & 715 Wharton St., Philadelphia, Pa.
Branch Warehouse: Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

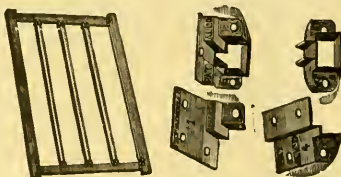
OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

Mention American Florist.



RUDOLPH HANTZSCH.

Wholesale Manufacturer of

WHEAT • SHEAVES.

Importer and Manufacturer of

FANCY BASKETS and FLORISTS' SUPPLIES.

Full line of Metallic Wreaths, Crosses,

Anchor, Etc.

S. W. Cor. 7th St. and Lehigh Ave., Philadelphia, Pa.

OUR NEW TRADE

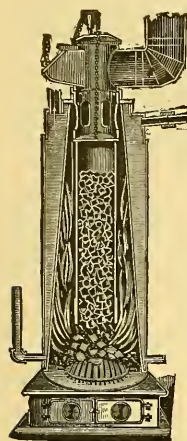
DIRECTORY

FOR 1893

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

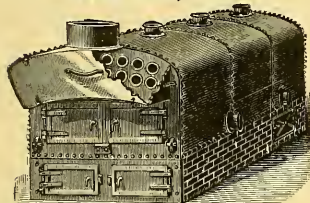
AMERICAN FLORIST CO., 322 Dearborn St., Chicago.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist.

**HERE WE ARE
AGAIN.**



Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.



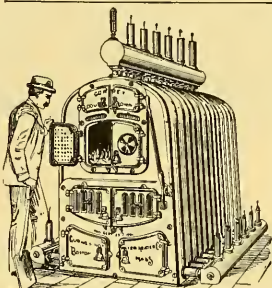
**GREENHOUSE HEATING
AND VENTILATING.**
Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
SEND FOR CATALOGUE.

**THE LATEST AND BEST
for heating
GREENHOUSES AND CONSERVATORIES.**

This heater has water way front and back ends, with double return flues at bottom, thoroughly utilizing and exhausting the heat before it reaches the chimney.

The fire is at the top—thus delivering the water into the pipes at a high temperature, without concur-



THE "GURNEY" DOUBLE CROWN.

rent circulation.

Very large grate and heating areas, thus insuring greatest possible economy in fuel. All screw joints, or iron to iron. Leading florists say it is the best yet.

Send for Descriptive Matter.

GURNEY HOT WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Selling (New York: JOHNSON & CO., 71 John Street.
Chicago: RICE & WHITACRE, 49 So. Canal St.
Agencies: Philadelphia: J. C. TRACHSEL, 246 Arch St.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
**NATURAL GAS MADE GLASS
FOR GREENHOUSES.**

Write for latest prices.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE BENCH TILE.

For testimonials, circulars, etc., address

W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY



Wrought Iron

Pipe,
Fittings,
Valves,
ETC.

78 JOHN ST., NEW YORK.
WELLS & GOUTAN CO., L'td.

Mention American Florist.



Kills Mildew
and
Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

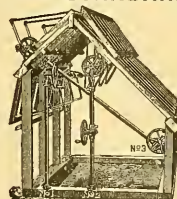
D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

YOU CAN SAVE MONEY BY
PURCHASING
AND GLASS B / USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

**THE STANDARD Ventilating
Machines**



Received best awards
at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.
Send for Catalogue
and prices.

E. HIPPARD,
Youngstown, O.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Index to Advertisers.

Abel C C & Co.,	494	498
Adorna Nurseries,	499	
Ball Lemuel,	499	
Bailor F A,	499	
Balmer Adam,	499	
Baylis Henry W.,	499	
Bayshore Hort. & Co.,	499	
Berkman's F. J.,	499	
Bever H H & Co.,	499	
Bonsall Jos E & Son,	499	
Boston Letter Co.,	499	
Brackridge & Co.,	499	
Braue L B.,	499	
Bruege & Richter,	499	
Brown & Canfield,	499	
Burns & Raynor,	499	
Burrow J G.,	499	
Burton John,	499	
Carman R W.,	499	
Carmody J D.,	499	
Chitty H E.,	499	
Corbrey T J & Co.,	499	
Cottner Gardens The,	499	
Curwen John Jr.,	499	
Dalliedonze Bros.,	499	
De Lamater Iron Works,	499	
Dillon J L.,	499	
Dreer H A.,	499	
Eckhardt Theo.,	499	
Elliott Wm H.,	499	
Elliott Wm & Son,	499	
Elliott Wm.,	499	
Faust H G & Co.,	499	
Feldman Lyman,	499	
Field S B.,	499	
Frost James,	499	
Gardening Co The,	499	
Gardner J & Co.,	499	
Gleeson John J.,	499	
Gibson J C.,	499	
Gonzalez & Co.,	499	
Gurney Hunter Co.,	499	
Hall Asa B.,	499	
Hammond Ben.,	499	
Hantzsch Randolph.,	499	
Hart James.,	499	
Hart Michael A.,	499	
Hartford H E.,	499	
Helm Jos.,	499	
Herr Albert M.,	499	
Hewes A H & Co.,	499	
Hill E G & Co.,	499	
Hilppard R.,	499	
Hitchings & Co.,	499	
Hooker H M Co.,	499	
Horan Edw C.,	499	
Hunschoek Bros.,	499	
Hunt E H.,	499	
Hunt M A.,	499	
Hunter & Purdy.,	499	
Irvine John Co.,	499	
Jeffords J E & Co.,	499	
Jennings E B.,	499	
Joosten C H.,	499	
Kennelcott Bros.,	499	
Knopf Oskar & Co.,	499	
Koffman R.,	499	
Krick W C.,	499	
Kroeschell Bros.,	499	
Kuehn C A.,	499	
La Roche & Stahl.,	499	
Little Geo W.,	499	
Lockland Lumber Co.,	499	

Lombard R T.,	495	
Long Dan J B.,	495	
McBride Alex.,	495	
McCarthy N F & Co.,	495	
McFarland J H.,	495	
McFarland J H Co.,	495	
Marschultz & Co.,	495	
Meyer John C & Co.,	495	
Mintz J & Co.,	495	
Milling Bros.,	495	
Moffatt G J.,	495	
Moninger Joe.,	495	
Moon Samuel C.,	495	
Moore Frank L.,	495	
Mullen Geo.,	495	
Nanz & Neener,	495	
National Hot Water Heater Co.,	495	
National Plant Co.,	495	
Niles Centre Floral Co.,	495	
Olson M.,	495	
Osman Floral Co.,	495	
Overkerk P.,	495	
Peck & Sutherland.,	495	
Peirce & Coleman Co.,	495	
Pennock C J.,	495	
Pennock Saml S.,	495	
Pierson A N.,	495	
Pierson F R Co.,	495	
Pitcher & Mand.,	495	
Randall A L.,	495	
Ratons C.,	495	
Reed & Keller.,	495	
Renard Joseph.,	495	
Roberts D H.,	495	
Roehrs Theo.,	495	
Rogner Fred.,	495	
Rogers Nurseries.,	495	
Rolker A & Sons.,	495	
Rapp John P.,	495	
Russell Governor.,	495	
Russell S J.,	495	
Sander & Co.,	495	
Schofield D C & Co.,	495	
Schultz Jacob.,	495	
Scollay John A.,	495	
Sedro P & Sons.,	495	
Sheridan W F.,	495	
Sherwood Hall Nur.,	495	
Siebrecht & Wadley.,	495	
Siple Export & Co.,	495	
Situations, wants.,	495	
Smith C A Floral Co.,	495	
Starr Chas F.,	495	
Stott Garden Imp Co.,	495	
Styer J J.,	495	
Sunderbruch H L.,	495	
Swayne Edw.,	495	
Swayne Wm.,	495	
Tricker Wm.,	495	
Vaughan J C.,	495	
Vare Thomas S.,	495	
Weathered Thos W.,	495	
Weeber & Don.,	495	
Welch Bros.,	495	
Wells & Fontan Co.,	495	
Whitdin Pot Co.,	495	
Wick W P.,	495	
Wilks S Mfg Co.,	495	
Winter N D.,	495	
Wisconsin Flower Ex.,	495	
Wood Bros.,	495	

THE LAST issue of *Gardening* is worthy of high commendation. The large number of high class illustrations and the practical and useful information it contains should make it very popular with amateurs, and much of the matter is of decided interest to florists also. This journal will undoubtedly do an amount of work in creating new business for florists of the country.

TOBACCO STEMS

FOR FLORISTS.

Packed in bales.

PRICE:
200 lb. bale, \$2.50
500 lb. bale, \$6.00

CANE STAKES.

Fresh stock: per 1000,
7 to 10 ft., \$1.00.

WM. ELLIOTT & SONS,

SEEDSMEN,
51 & 56 DEY ST., NEW YORK.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention American Florist.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

SPENCE HEATER

HOT WATER

FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER

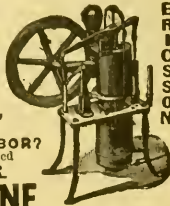
Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER
OR
ERISSON
PUMPING ENGINE

(Catalogue with full particulars, sent on application.)

DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N. Y.
Mention American Florist.



THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, DECEMBER 29, 1892.

No. 239

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 27 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., Aug. 1-10, 1893.
The new officers to be installed January 1, 1894 are: Wm. E. Smith, Washington, president; Prof. Wm. T. Release, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Carnations—Seasonable hints	505
—The American Carnation Society	505
—Our telephone	506
—Notes on varieties	506
—New white carnation Gov. Russell (illus.)	507
—Temperature for carnations	508
—The garden path, rust (with illus.)	508
—Trellis for carnations (with illus.)	509
—From a specialist's standpoint	509
Giant tree ferns at the World's Fair (with illus.)	510
Some useful succulents	510
New York	512
Boston	512
Chicago	512
Toronto	512
Baltimore	513
Washington	513
House of cyclamens (illus.)	513
American Carnation Society	514
News notes	514
Another special number	516
Our trade directory	516
Wiring rose beds (with illus.)	516
The seed trade	518
Patents recently granted	518
Chrysanthemum show finances	520
Foreign notes	522
Panics	522
Locomotive boilers for heating	524
The floral "emblem"	526

Society of American Florists.

President elect Smith has appointed Mr. Chas. Henderson, of New York, Mr. Benj. Duffee, of Washington, and Mr. H. B. Beatty, of Oil City, Pa., members of the executive committee, their term of office to begin January 1, 1893.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the *FLORIST*. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.



Seasonable Hints.

There are several plans of shading the cuttings. Lath frames on the outside of the house, paper laid over the bench, muslin curtains hung to the sash bars, etc. The plan we have found to be most handy and successful is the idea we believe of Albert M. Herr. The sides of the benches are raised about three or four inches above the sand. Light muslin which comes at about 5 cents per yard gives about the right degree of shade. This is made the width of the bench by sewing on a slip of the proper size. Lath are cut off the right length to lay crosswise of the bench and the muslin tacked to these at intervals of eight or ten inches. Lath answers the purpose very well, but lighter and smooth strips are better and neater. This can be quickly rolled or unrolled over the cuttings without disturbing them in the least.

When the cuttings are well rooted they should be removed from the sand at once; or if kept therein for a week or two longer the temperature should be reduced. If they remain in the sand too long they will become drawn and of little value. Lift the cuttings carefully by running a broad knife between the rows, sorting out the ones not rooted. A few will be found having light roots only, these may be returned to the sand when they will in a few days form well developed roots. The rooted cuttings at this stage are ready for shipment, potting or traying. They may also be heeled in a bench and thus held for sale for another month. The soil for this purpose should be good sifted potting soil and the cuttings placed in rows about two inches apart and twenty to thirty to the foot in the row. A cool house is the best place for these but the propagating house will answer very well. Care must be taken not to over water them when thus heeled in, and to remove them at once when their growth demands it.

If the intention is to pot the young plants or prick them into trays, good rich compost should be used, say one-third well rotted manure and two-thirds surface soil or rotten sods with a little bone-dust or bone black. We prefer to use 2 by 3-inch rose pots as being very suitable for the small carnations, and such pots take but little room on the bench. If trays are used 90 to 120 cuttings to the box according to size, is about right. The trays will take up less room than the pots. But we have always found it paid us to pot them when we could as the plants

invariably did far better in all stages afterwards. They make finer plants and a less percentage is lost when planting out and when growing in the open ground. After potting or boxing the plants must be removed to a cool house. We insist on this point as being of great importance to their future welfare. The temperature however should not be reduced at once, but gradually, until the house falls to near freezing point on cold nights, with plenty of air given during the day. They will make strong, heavy, thick-set plants in such a place and even if allowed to freeze it will not injure them in the least provided they have become sufficiently hardened. To place them in a warm house with the larger flowering plants for any length of time we consider a fatal mistake. Avondale, Pa. W. R. SHELMIERE.

The American Carnation Society.

The second annual meeting of this society will be held at Pittsburgh, Pa., Tuesday, February 21, 1893. The Pittsburgh and Allegheny Florists' and Gardeners' Club has appointed a committee to assist in making a successful meeting. Hotel Schlosser, corner Sixth street and Penn avenue, has been selected for headquarters. Flowers for exhibition should be sent prepaid to R. C. Patterson, florist, corner Market and Liberty streets, Pittsburgh, Pa. A list of papers which is being prepared to be read on that occasion is as follows:

Sports and Variations, Prof. Cowles, Buffalo, N. Y. Some Carnation Enemies and Supposed Remedies, C. W. Ward, East Moriches, N. Y. A Retailer's Views, Thos. Cartledge, Philadelphia, Pa. Carnation Diseases, Prof. Atkinson, Cornell University, Ithaca, N. Y. Types and Tendencies of Carnations, Prof. Bailey, Cornell University, Ithaca, N. Y. Pot Culture of Carnations, J. W. Colfesh, Philadelphia, Pa. Growing New Varieties of Carnations, Sewall Fisher, Framingham, Mass. Diseases of Carnations other than the Rust, Prof. Halsted, New Jersey Experiment Station, New Brunswick, N. J.

The history and doings of the society up to the present time is now in course of preparation and will be ready for distribution very soon. All the valuable papers which have been read before the society are gathered together in this little volume, thus making it convenient for reference and which no carnation grower can afford to be without.

The report will also contain a list of carnations more complete than any heretofore printed, and includes all new varieties registered with the society, with the name of originator and introducer and date of same as far as possible.

Membership is open to all, and the dues are only \$2.00 a year.

The officers are President, Edwin

Lonsdale, Chestnut Hill, Philadelphia, Pa.; Vice-President, Wm. Swayne, Kennett Square, Pa.; Treasurer, C. W. Ward, East Moriches, N. Y.; Secretary, C. J. Pennock, Kennett Square, Pa.

Our Telephone.

"Hello, central, give us—"
"Oh, hello, is that you? Guess what I got for a Christmas present."

"We'll call you up later and do our guessing. Just now, however, give us the line to Belleville, N. J."

"And who do you want in Belleville?"

"Essex Heights Floral Co."

"Here they are, go ahead."

"Hello, Mr. Van Reyper. The AMERICAN FLORIST wishes you a Happy New Year. We suppose you are hard at it now putting in carnation cuttings."

"Yes, we are beginning to get at it now. I don't think it is good to put in too many early cuttings. There's nothing in sand for plants to live on, and if cuttings stay in the bench too long they are liable to pick up any disease that comes along, just like an underfed man. As soon as they are thoroughly rooted we box them off. Most buyers don't care to get their rooted cuttings till latter part of January or February. We take no cuttings except from the flowering stem. Our rule is to leave three joints from the base of the stem up and take what cuttings there are above that, one or two as the case may be—generally there are two—and confining ourselves always to those that are short jointed and stocky. I haven't found any varieties that do not throw out cuttings on the flowering stem, although I know it is claimed that some varieties make no such cuttings. I even get two cuttings to the stem from Tidal Wave."

"How many plants do you grow?"

"We have somewhere between 55,000 and 60,000 this year. Next year we expect to plant fully 80,000."

"Have they done well this fall?"

"Yes, they are looking fine and healthy, with the exception of a few lots in one or two of the lower houses which were planted early and which we neglected to shade until too late, and in the hot dry weather that followed they got their foliage badly burnt."

"Don't you believe in early planting?"

"Yes, by all means. I believe in early planting and shading the houses with mud. Shading is necessary on account of the warm weather that is liable to prevail. If you don't shade the hot sun shining through the glass is apt to burn the foliage. Some varieties burn worse than others. But I believe in planting early because the plants get well established before we get this dark weather."

"Don't the flowers come too early for profitable sales?"

"The plants can be topped back in the middle of August and if you take them up about the 10th of September there are then no buds formed and none to be blasted by the transplanting."

"What would you say as to Mr. Lombard's practice of lifting the plants when the soil is so dry as to shake off entirely from the roots?"

"I believe in it. The plants make a better start. But you want to shade your houses at once. I believe, too, in plenty of ventilation. If you give an abundance of air and give it a good opportunity to circulate through your plants you will not be troubled with diseases. Never allow plants to lie down on the beds and to get damp and rotten.

I believe that's where half the diseases come from. If a rubbish heap will do it outside why not in the houses? A nice appearance is not the only advantage gained by keeping your plants neatly tied up and off the ground. There is a great difference in varieties as to transplanting. Tidal Wave, for instance, is tough and will stand any amount of moving. I like Tidal Wave. It is good for low benches. Mrs. Fisher transplants poorly but recovers afterwards with us. Fisher should be grown on a board bench, never in a bed. You don't get so many split flowers. In case of a week or so of dark weather the bench dries out quicker; too much wetness at the roots causes splitting."

"What variety do you find in best demand now?"

"Daybreak. I wish I hadn't sold any stock of it last year. I have a sport from Daybreak that is a beauty. It is splashed with carmine."

"In whites we are doing splendidly with Lizzie McGowan. There is nothing so white as Lamborn, but it doesn't seem to have vigor enough to open. The dark weather affects it badly."

"Pearl, sent out as a white, I find to be a nice strong grower, but it is not white with us, being deeply blotched and mottled with pink. It makes a nice fancy variety, however, and I like the color better than white. Perhaps it comes whiter out in Chester county because that is a more religious place than this."

"Florence Van Reyper will prove a valuable white. It is a seedling from McGowan, very similar, slightly tinged with pink but becomes white later. It is a little more free flowering than McGowan. It is continuously sending up flowering shoots from the bottom."

"Ruth Churchill is another new one that is going out this season. It is a fine dark crimson from Anna Webb crossed with Garfield, the same cross, in fact, as New Jersey, only he got a scarlet and we got a crimson."

"What do you grow for yellow?"

"We try all of them. I don't think Buttercup can be beaten yet. What I don't like about Golden Triumph is its habit of clustering. I have four fine yellow seedlings, the result of a cross of Golden Gate on Louise Porsch."

"Hector I think is one of the best scarlets. That and Lady Emma are the cream."

"How do you distinguish Lady Emma from Portia?"

"Under the same treatment it is larger than Portia, that's all."

"What do you think of the plan advocated by some of growing the young plants in the houses where they are to stay, instead of transplanting from the open ground?"

"I claim that if you do the work all yourself and will pay attention to them it is all right. But out of doors carnations will stand an awful amount of dryness. Carnations planted outdoors make nearly all their growth after first of August. I'm going to try one house planted in spring next year, though."

Notes on Varieties.

ED. AM. FLORIST:—Yesterday I sent a box to your office, containing a few flowers of some of the varieties of carnations which happen to be flowering at this time, and while I was busy packing up the flowers, it suddenly occurred to me that three or four years ago I performed a similar duty, but of the several varie-

ties sent then only two of the number (Grace Wilder and Buttercup) remain in my collection to-day, showing what rapid strides and vast efforts are being made in this direction continually, and what magnificent results are in store for us in the not very distant future.

Thinking a few remarks upon these charming flowers may interest some readers of the FLORIST, I hasten to give the same in writing.

First comes Daybreak, a beautiful blush, or very soft pink of extremely delicate tint, which captures the eye and heart at once. The plant is a fine robust grower, and wonderfully free flowering and is undoubtedly destined to be everybody's carnation. The flowers sell on sight.

Annie Wiegand, Nancy Hanks, Ben Hur and Grace Wilder, all of that classic ideal pink of which Grace Wilder may be regarded as the type, and which have been introduced as rivals to and substitutes for the good old sort, when brought together will be found to possess widely distinctive features.

Then comes Grace Darling, also placed on the market as a rival to the other Grace, but so very different in tint from anything else that we find it necessary to keep them all.

Lizzie McGowan, Puritan and White Dove, three of a kind, you say, but oh, how different; not only in the make up of the flower, but in habit the plants are as widely different as it is possible to imagine three carnations of a color can well be. Of their distinctive merits I will say nothing now.

In Golden Gate we have a genuine yellow carnation, of excellent robust habit of growth and exceedingly free flowering tendencies, which will endure it to every grower.

Orange Blossom, for a fancy carnation, takes the cake so far, and will also take the right of the line and stay there for some time. It is the neatest and prettiest thing in its way that we have, and such a wonderful flowerer.

Attraction is something entirely new in color. Mr. Dornersays "rosy scarlet," but I must confess that I fail to see either the rose or scarlet, but even doctors differ you know. I will leave the experts of the AM. FLORIST to decide the point. I am, however, abundantly satisfied with it; it is a beauty without paint and flowering seems its chief hobby, and my, how the flowers sell!

J. J. Harrison and Nellie Lewis, exact counterparts in habit and manner of growth, but widely different in color, the former being much the darker of the two, the colors being suffused throughout the petals, while in the latter the deeper colors are confined more to the margins of the petals.

Brewster, one of those deep rich pinks which have become very popular of late. This variety shows strong evidence of having descended from the good old Century.

Tidal Wave is gradually being regarded as an old sort, but the color is so rich, the habit so good, and such a wonderful flowerer, that I think some time will elapse before a successful rival of the same color is announced.

Mayflower: One of those oddities that seem to be essential where a collection is an object. The color is a pink, heavily suffused and striped with a deeper pink and carmine. The flowers are produced in great profusion, and I find it is a good thing to have.

Mrs. F. Mangold: Salmon pink, rather



NEW WHITE CARNATION GOVERNOR RUSSELL.

tardy in coming into flower, but the color, habit and general character of the plant is so good that we can well afford to wait a short time for the flowers, especially as they come to stay when flowering fairly commences.

Louise Porsch: For a light, delicately tinted yellow, this is hard to beat. The yellow is light, with stripes of delicate pink and an occasional streak of pure white. The plant will readily grow three feet high, and when loaded with its large richly marked flowers, forms an object not soon forgotten.

With Louise Porsch my list ends. Although forming but a small part of my collection, I think these will serve to illustrate the several shades of color mostly cultivated at this time, except scarlet, a color which is not represented. By the

way, we need a good solid scarlet, that will begin to flower in October, and that will continue flowering to the end of the following summer as does Portia. Portia is too small to meet present requirements, and the stem is also too weak. Garfield is too late in coming into flower, but good when it does come, and pretty much the same in a general way may be said of others. It seems to me that a grand opening presents itself for a scarlet of the right stamp, and we ought not to be obliged to wait long, at the present advanced stage of carnation culture.

H. E. CHITTY.

Paterson, Dec. 19, '92.

[The box of flowers arrived several days in advance of the above communication, and the following comments were written shortly after the flowers reached

us not knowing that a communication was on the way. Ed.]

A large box of carnations, including nineteen well known varieties, was recently received from H. E. Chitty, Paterson, N. J. They may be regarded as typical commercial blooms, and a comparison of their various merits and demerits is of interest.

But two yellows were represented in the lot. One was the new variety, Louise Porsch. Its color is certainly in its favor; a delicate primrose yellow, with a few faint pencillings of carmine. Its fragrance is delicate, and, judging from the abundance of lateral buds it is a free bloomer. But at the onset a very serious defect was noted; every flower showed a burst calyx. Unless this habit can be overcome it can-

not be regarded as an improvement on existing sorts. The flower appears to be large, and the stem long. The other yellow present was Golden Gate; this is deeper in color than the Porsch, a very strong grower, with stout and robust stems. This also showed the same defective calyx as Porsch. Mr. Dorner says it is better than Buttercup, a very good grower, but the flowers are rarely perfect.

Annie Wiegand, a good pink, something of the Wilder color, was noticeable for its slender, perfect calyx, borne on a long stem. It seems entirely free from calyx bursting, and the flower is fine in shape and size. It is a good flower, but excelled by Mrs. Elizabeth Reynolds, similar in color, but larger. A mingled pink, seen in the same bunch was Mayflower; its ground color is flesh, very thickly flaked with deep pink. It has excellent stems, straight and stiff, with few lateral buds; the calyx is firm and slender, and seems tolerably free from the tendency to burst.

Among whites in the collection under discussion, Puritan attracted attention for its freshness after the long journey; the two other whites present, McGowan and White Dove, did not show the same freshness as Puritan. The blooms were large, the stems stiff, and the whole appearance of the blooms very attractive. McGowan made a better appearance than White Dove, the flowers being larger, and the stems better. This case, however, is reversed in many western localities, where McGowan is found disappointing.

Orange Blossom, of which we have heard a good deal, was disappointing; the flowers were small, and appeared to suffer much on the journey, being more faded than any other variety present. It is hardly fair to judge the flower under these circumstances; it has a good stem and perfect calyx. Grace Wilder was present in fine condition; this is undoubtedly first-class still in suitable localities, but few western growers find it satisfactory. Attraction, carnine, was noticeable for its brilliant color; it has rather small, slender growth, but is a free bloomer, and suits many localities.

Among the delicate pinks, Daybreak certainly stands high, and the blooms sent by Mr. Chitty were admirable. It is a strong grower, with long stiff stems; the flowers are large, with a firm calyx. It is a very popular market sort. Ben Hur was another delicate pink; it is a free bloomer, being constantly in flower, and fairly vigorous, but it does not appear to keep so well as Daybreak. Nellie Lewis is another of the flaked pinks; it is not so good as Mayflower. Grace Darling proved to be a good traveller, looking as fresh as if just gathered; it is a good lively pink, and seems to possess many desirable qualities.

Still another of the delicate pinks was Nancy Hanks, which is a great favorite in the Chicago market. Color similar to Mme. Diaz Albertini, but flower different in shape, being without the full raised centre of Albertini. Nancy Hanks is a good grower, free bloomer, and possesses strong clove odor; it has a firm stem and good calyx. Very successful in the west.

Tidal Wave seems always good, and the flowers in this lot showed the brilliant color and vigorous growth which seem its usual characteristics. It is very generally known as a free bloomer and good market sort. Brewster, another of the carnine pinks, something in the line of Tidal Wave, seemed to suffer much more in transit; whereas the latter sort was fresh, shapely and brilliant, Brewster was flabby and faded. All the flowers were

admirably packed, the stems being placed in balls of wet moss, securely rolled in wrappings of oiled paper.

The only dark flower in the collection was Ferdinand Mangold, and this suffered a good deal from the journey. Few deep crimsons seem to last well, soon blackening around the edges. The Mangold is a good color and fine flower, but has a tendency to split.

J. J. Harrison travelled well, and was in good condition. It is a good flower and attractive in color; seems very popular among those who like striped flowers. The collection here noted may be regarded as a list of popular sorts in the locality of New York, including a fair number of market sorts grown there. It must be seen that a number of them, popular sorts too, have the calyx-bursting defect, and any improvement on existing sorts must remedy that quality, as the first decided advance. So many of our existing carnations are so admirable in color, shape and size that future advances must be in the line of better calyces, better stems, or more lasting color.

Temperature for Carnations.

In your paper of October 27, last, Mr. W. R. Shelmire says: "We consider the proper temperature to be 50° to 60° at night; and 80° to 90° during the day when the sun shines will do no harm."

I am sorry I cannot agree with him, as he is considered an authority on carnation culture.

Experienced growers might not change their manner of growing from reading the article referred to, and could safely be left to follow their own judgment, and my only reason for making this reply is to guard those who from lack of knowledge might adopt what I fear would result in failure, and thereby cause them to have less respect for, and confidence in the opinions of those who write for your paper as experts in their line.

It is a well settled fact that the carnation is at least half-hardy and with fair protection will stand our winters in our gardens; and that this fact alone would seem to indicate that it prefers a rather low temperature.

Below 40° most vegetation ceases to grow. Yet the carnation grows between 40° and 45° and will make very perceptible growth and even bloom below 50°; it will, while in the field, not only stand severe frosts, but after being frozen several times, still flourish and bloom. I lifted plants in 1891 as late as Dec. 20; put them in my greenhouse and they not only lived but thrived as well as those housed in September.

All growers know that plants in the field make but little headway during our hot summers, up to the middle of August. It is true the roots are developing and reaching out, but only to a small extent; but from August 15, to October 1, the plants grow with wonderful rapidity, flower shoots multiply and the plants becomes "stocky."

Now is it not reasonable to believe that when doing so well, they have found congenial conditions. It cannot be the soil, for it is the same. What then? It must be the temperature, condition of the atmosphere, or both.

Having kept a daily record of the weather and temperature for a number of years, I have carefully noted the average temperature of September, the month they do so well. I have also been furnished by the Boston Agent of the U. S. Weather Service, the average daily or day and night temperature for each month in the

year for twenty years, and the average humidity for each month in the year for twenty years, and have thus obtained the following facts: that for September the mean maximum is 71.1° and mean minimum, is 54.8°—a difference of about 16° in temperature. Also that the daily average of humidity throughout the year is within a small fraction of 71 per cent, that the average in September is 74 per cent, which is the highest percentage of moisture of any month in the year. Applying my experience to the above, I have come to the conclusion that a carnation house should be kept at 55° at night and from 70° to 75° during the day with abundance of air, which should have more than the average of moisture, with a moist but not wet soil, and avoid extremes between day and night. I am well aware we cannot always maintain these conditions, as to heat, cold and length of day, yet we can take it for our standard and keep as near to it as possible.

While politicians deride everything that comes from old England (except the clothes they wear) I find we have much to learn from our mother country. While America is said to be "the prow of the vessel," yet it will not do to ignore the helm, or the advice of those who touched so many "unknown seas," before we got on deck. If those interested in growing carnations will examine the English works on this plant, they will find that none, so far as I can find suggest a night temperature above 58° or day temperature above 75° and many very much lower.

That some varieties may be grown at the temperature named by Mr. Shelmire I do not deny, when supplied with plenty of air, but these are exceptions which prove the rule.

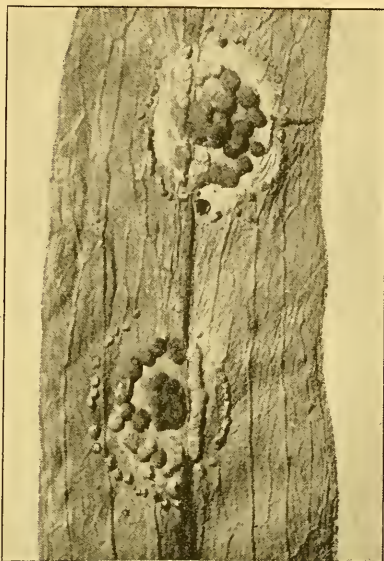
I consider syringing the plants at night during November, December, January and February a very dangerous operation whether the house is at 50°, 60° or higher, unless all ventilators can be opened without fear of frost. Of course there would be less danger with plants with foliage like Lizzie McGowan and Karto, which varieties in my opinion have the best foliage of any variety yet introduced for cultivation under glass, and their type should be aimed for in growing seedlings. Wayland, Mass. R. T. LOMBARD.

The Garden Pink Rust.

Some of the varieties of the garden pinks (*Dianthus barbatus*) are badly infested with a rust, and the question naturally arises in the minds of florists and others if this trouble is the same in kind as that upon the carnations and which is spreading rapidly throughout this country. It is a pleasure to assure all such as are interested that while both are genuine rusts and flourish upon hosts so closely related as to belong to the same genus (*dianthus*) they are not even first cousins.

The rust of the carnations, which in general is much like that of the garden pinks, is, under the microscope, of a very different structure. It belongs to the genus *Uromyces* and is known to botanists as *U. caryophyllinus*, Schro. It has more than one kind of spores in its life history similar to what is known to exist in many of the rusts, those of the wheat and other grains included. It is recorded as growing only upon a very few species of plants, the carnations being the preferred host.

The rust of the garden pinks belongs to the genus *Puccinia* and is *P. arnariae*, Schm. So far as known this has only



THE RUST OF THE GARDEN PINK. MAGNIFIED THREE DIAMETERS.

one kind of spore and a long list of plants is affected by it. The pink rust is one of the old species, it having been described as long ago as 1803 by Schumacher, as *Uredo Arenariae*. In 1805 it was again described by De Candolle as *Puccinia Dianthi*, he finding it upon a species of pink, while Schumacher took it upon a sandwort.

These points are brought out here to show that this is an old enemy and one that is well known to be a distinct species of rust from the one that is now causing so much anxiety among carnation growers. Unlike the *Uromyces* of the carnations this *puccinia* has a wide range of plants upon which it may thrive. It may be found quite generally upon the members of the pink family, the genera most frequently attacked being the sandworts, chickweeds, corncockle and occasionally the bouncing bet. It is thus seen that the rust of the pink is one that may be harbored by weeds, several kinds of which are common pests of the cultivated ground and spring up quickly in neglected places.

The engraving shows a portion of a leaf three times magnified. There are two rust spots and these show to some extent the peculiar circular arrangement of the rust pimples. The fungus penetrates the tissue of the leaf and after accumulating nourishment by theft forms the spots by the formation and exposure of its multitudes of spores.

Plants that are badly rusted should be removed and burned. Weeds of the same family as the pinks which are similarly rusted should not be tolerated.

While in itself it may have been worth while to call attention to this rust of the flower garden the chief point was to show in brief that this enemy is not identical with the one passing under the same general name, so ruinous to the carnations and no fears need be entertained that it

will go from one ornamental plant to the other.

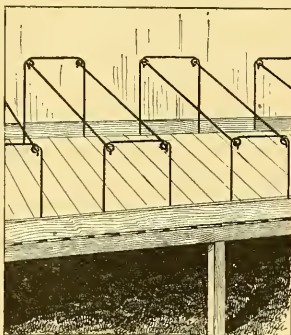
BYRON D. HALSTED.

Rutgers College, Dec. 17, 1892.

Trellis for Carnations.

The accompanying sketch shows our plan of trellising carnation beds, and which we believe will be more satisfactory than the old method of staking.

We use No. 10 common vineyard wire. This is cut and bent into the shape of a large staple, with eye-holes at each upper corner. For narrow benches one staple



at each end of the cross row will answer, but wide benches may require an additional one in the center.

The side wires are made of the same material and are simply straightened out, cut the proper length, run through the eye-holes and along the sides of the row and the ends turned down to prevent slipping out of the staples. One or more wires may be used to a side as necessary

and the staples are to be made of a height and width to suit the variety.

This we think will not only be much less trouble than stakes, but give better results, more durable and will cast less shade.

C. P. BARNARD.
North Brook, Pa.

[The engraver didn't make exactly an overwhelming success of his drawing. The legs of the staples should be shorter, and the spaces between the cross wires should be equal. The construction of the bench is also largely his own conception. Nevertheless the essential points will undoubtedly be plain to the practical men who read the *FLORIST*. Ed.]

Carnations From a Specialist's Standpoint.

Among western carnation growers Mr. Dorner, of Lafayette, Ind., may justly be accorded first rank, and some knowledge of his methods will assuredly be of interest to many. It is only four or five years since Mr. Dorner made his maiden effort in carnation crosses, but since then his success has been very great. About twenty of his varieties are now in commerce, a majority of them holding excellent rank, and he will disseminate ten new varieties this year.

Mr. Dorner makes all his crosses during the winter months. It is not only that the flowers are at their best then, but there is little risk of any interference with the fertilization through the accidental aid of insects. Being free from flies or bees, and protected from wind, there is no need to tie up the artificially fertilized blooms. Should the seedling prove promising the first year it is tested again a second year and disseminated, if worthy, the third year. If the first flowers from the seed plants show a tendency to burst the calyx Mr. Dorner discards it, even though it may be in other respects promising, the bursting of the calyx being a very grave defect, though a prevalent one. Being asked what he regarded as marks of promise in a seed plant Mr. Dorner said:

"First of all, a good long stem, next a calyx free from any tendency to burst, and a marked improvement the second year of its growth. If it remains stationary and is no better the second year than the first it is not desirable, unless of unusual value in other ways. There are cases, however, in which the promise of the first year is not borne out by the second. For example, we see flowers entirely free from any tendency to burst the calyx the first year, which develop this fault the second or trial year."

"Can you form any idea from the varieties used in crossing what color will predominate in their progeny?"

"Not unless we know something of the pedigree of the parent plants. I am using my own seedlings entirely for stock, because I know their pedigree, and think in that way I may arrive at more certain results. But we are not sufficiently advanced to understand the laws influencing these variations."

"What colors predominate among the seedlings?"

"As a rule, pinks and flaked or striped sorts are the most plentiful. Here is a sulphur yellow, pencilled with carmine; both the pollen parent and pod parent were bright deep crimson."

"A first class yellow carnation is needed in the trade; what parentage should you use in trying to produce such a result?"

"In almost every case where a yellow is produced I can trace it back to Hinz's

White. Although that flower has a tendency to a pinkish tinge, its progeny seems to run to yellow."

"What would you use with Hinze's White in the expectation of obtaining a yellow?"

"A bright scarlet, that color having a tinge of yellow, which seems to be lightened by the white. I have had no good results from using pink in an attempt to get yellow."

"What do you think of using single flowered sorts for stock? It has been suggested that through them we might obtain the vigor of the original type."

"It seems to me too much like taking a step backward, and we don't want to do that. Some of the double varieties which have been long in cultivation seem to be running out, but if we select single forms to breed from we shall have to go over the same ground that has already been covered in breeding from single to double forms. I think we are more likely to obtain vigor from strong and promising seed plants in their first year."

"You use your own stock entirely then."

"Yes, they seem best suited to our locality, and are consequently more satisfactory. Many varieties found to be first rate in other places do not suit us. For example, Lizzie McGowan is worthless here; it grows weak and spindling and blooms sparsely. Nor have we any success with Buttercup; in fact there is, apparently, no good yellow suited to our locality."

"Is Mrs. Fisher or Lamborn a success with you?"

"No, we find few whites satisfactory except those of our own raising. We use White Wings and White Dove, both of which suit our locality, and expect to make great use of Blanche, our new white. This is a very free bloomer and the flowers are charming for designs and other flower work, being a very pretty shape for this use. White Wings and White Dove are both fine all-round flowers with good stems and free from any tendency to burst; the first named is a good grower in pots."

"Does Wilder suit your locality?"

"No, it does not. Among light pinks we grow Daybreak, which is fine in every way, and our new varieties, Mrs. Elizabeth Reynolds, Wm. Scott and Mme. Diaz Albertini. We think we have something good in these three new varieties, all delicate in color but all distinct."

Looking at the houses planted with new varieties one must agree with Mr. Dörner in his favorable estimate of his new carnations. Wm. Scott, which has been a prize-taker at so many of our autumn shows, is a large flower of a pink similar in tone to Grace Wilder, but a little deeper; it is very vigorous and free, the flowers keeping well. Mme. Diaz Albertini is a delicate pink with a slight approach to salmon; the center is very full, slightly quilled, raising above the outer petals. It has a very strong clove scent. Mrs. Elizabeth Reynolds is another pink more the style of Scott; a very large long stemmed flower. It is a remarkable keeper, the color remaining long in perfection, and the flower keeps on growing for four or five days after it first opens. This same habit is also characteristic of the Richmond, a beautiful bright carmine, which shows up finely at night. The cutting bed was being filled with these varieties, ready for February orders.

"Do you believe in taking cuttings from blooming wood?" Mr. Dörner was asked. "Yes, most certainly. I always take shoots from blooming wood in preference

to the shoots at the bottom. It is only reasonable; each of the large bottom shoots contains a bud, which must come out in the young plant, taking its vigor and retarding its growth. With shoots from blooming wood this is not the case. I break or pull out the cuttings, and in most cases no trimming at the bottom is required."

"How do you trim at the top?"

"The cuttings are trimmed quite close, but each leaf is cut separately; we don't crush the leaves together and cut all off at one stroke."

"What months do you prefer for making cuttings?"

"Personally, I prefer February and March, but naturally we have to make a large quantity before then as we have to begin shipping rooted cuttings in February."

"What do you think of the controversy about lifting carnations with or without balls?"

"It must entirely depend on the soil in which they are grown. In a light, loose soil, inclined to crumble and fall apart, I believe the fine roots would suffer more from the effort to retain a ball than from the absence of it, and I should shake all the soil off. Where, on the contrary, the soil is very stiff and hard, I should retain the ball intact."

"A good many growers are now debating whether the carnation could not be better grown without transplanting at all; what do you think of that question?"

"I seriously intend trying some of mine next season planted in the greenhouse beds all summer. Of course the greatest difficulty will be in keeping them cool, but I believe the experiment well worth trying, and that it would be a gain if we could avoid transplanting. Of course some varieties suffer more than others in the transplanting process, but in most cases it is detrimental."

"I notice there is a large proportion of flaked and pencilled flowers among the seedlings; are they much in demand?"

"No, the greatest demand is for self colors; we only retain some especially good variegated forms. Here is one of the new ones, Dr. Smart; it is pinkish cream, striped with crimson, very vigorous and a dwarf grower. It is admirable for pots. Western Pride, another pencilled form, is pure white flaked with scarlet, very distinct, but not quite so dwarf as Dr. Smart. We get a good many fawn or buff tints, flaked with red."

"I notice some odd purple and magenta tones among the seedlings; do they often appear?"

"Yes, they seem a return to tones seen in the older summer blooming carnations, and they are apt to recur, even when an effort is made to discard them. I have made crosses with them, endeavoring to produce a nearer approach to blue, but it has been disappointing so far."

"What crimson variety do you grow?"

"Creole, one of my own, we find very satisfactory in this locality, and we think our new crimson, Wabash, highly promising. Among scarlets we have discarded Portia as too small, although its color is lovely, and use Fred Dörner almost entirely. We have a number of good scarlet forms among our seedlings of '92."

EMILY LOUISE TAPLIN.

Giant Tree Ferns at the World's Fair.

The fine exhibit sent by New South Wales to the World's Fair has been previously noted in the FLORIST and our illustration in this issue will give a better

idea of the size of some of the big ferns than any amount of description. The twin plant just being lifted into its tub is formed by the junction of an *Alsophila* and *Dicksonia*; the former, *Alsophila australis*, is just 30 feet high, while the latter, *Dicksonia antarctica*, is between 10 and 12 feet high. Naturally, the potting, or rather tubbing, of this great plant was quite an undertaking, and the ingenious arrangement of block and tackle seen in the engraving was decided upon by Mr. Thorpe; it proved thoroughly satisfactory.

"Uncle John" appears quite distinctly in the picture, and other well known faces present are those of J. A. Pettigrew, H. H. Hindshaw and H. M. Hughes. The small dog superintending the operation is "Uncle John's" familiar, little Sproutsy.

Some Useful Succulents.

For the retail trade there are many plants that are worth growing in small quantities, and that may help to sell something else, that would not pay the wholesale grower to handle, and among such plants may be numbered some of the succulents. It is well known that plants of this character are usually among the most accommodating subjects with which we have to deal, a little neglect in the matter of watering or ventilation doing no permanent injury, in fact in some cases seemingly beneficial to a greater or less extent, and thus the addition of a reasonable quantity of such stock does not materially add to the labor.

But the fact of their toughness is not the only argument in favor of succulents, for they unquestionably are attractive to the general public, as witness the crowds surrounding a table of such plants at the various exhibitions at which they have been a feature, and also in the various public parks in which beds of succulents have been displayed. It is, however, more from their adaptability for window culture that this reference is made to the subject, and for this purpose the epiphyllums take a prominent place, these being remarkably showy when in bloom, and also more attractive than many other species when not in flower. The range of color also is quite extended, from white to crimson and some shades of purple, also salmon, many of the varieties including pleasing combinations of color.

The best method of displaying epiphyllums is by growing them as standards, grafted on *Pereskia aculeata*, or on one of the cactus, the latter making a good stock but growing slower than the *pereskia* and consequently requiring a longer time to get up a stock. The *pereskia* may be rooted from cuttings very readily in the spring, and the young plants planted out doors for the summer like bouvardias, when they will make a rampant growth if the season be a warm one, and in the fall should be lifted and all the shoots but one cut away, then potted into as small pots as the roots will permit, and in a short time will be ready for grafting. The operation of grafting these plants is of the simplest nature, and needs no special description in the present instance. In order to grow epiphyllums rapidly moderate heat is needed, about 55 to 60 degrees being sufficient, and abundant light at all times.

Some of the *crassulas* also should be included in this brief list, and of these *C. lactea* is one very pretty species, and at



GIANT TREE FERNS AT THE WORLD'S FAIR.

one time was grown to a greater or less extent for cut flowers. This plant is of spreading habit, with ovate, fleshy leaves, and produces its spikes of starry white flowers during the winter, the flowers being of use for making up, though the plant is of questionable value for that purpose only. *Crassula coccinea* and its various seedling forms are also pretty, these being of erect growth, and producing terminal clusters of tubular

flowers, the latter being generally in various shades of red. These plants are of shrubby habit and very easy to grow from cuttings, the only thing of importance to be remembered is that they do not like much water over their leaves. *Crassula falcata* is another showy sort when in flower, and bears a large tuess of bright scarlet flowers, the growth of the plant being rather stiff, and the leaves large and fleshy.

Several of the cotyledons (as our old friends the *echeverias* and some other former genera are now called) should be included in the useful list, either for window culture or for out door bedding, and among these *C. orbiculata* is notably pretty, with broad leaves that are covered with white powder and edged with a narrow line of dull red. *C. metallica* is another good one, and of very strong growth, the leaves often being six

or seven inches long, and nearly as much in breadth, and very glaucous. Other good sorts in this extensive genus are *C. Pachyphyton*, *C. californica*, *C. agavoides* and *C. secunda*. Some of the mesembryanthemums, too, should be remembered in this connection, these being both odd in growth and showy in flower, some of the species being well adapted for basket culture. This also is a large genus and some of its members are not very valuable horticulturally, but *M. blandum*, *M. cordifolium* and its variegated form, *M. dolabriforme*, *M. linguiforme*, and *M. tigrinum* may be considered among those worth growing. *Othonna crassifolia* also should not be forgotten, for though its yellow flowers are small they are produced in quantity, and it makes one of the most satisfactory of basket plants for window culture.

W. H. TAPLIN.

— New York.

Christmas trade has been generally satisfactory to the regular dealers. The Greeks only, have cause for dejection, for bitter cold weather which has prevailed steadily for a week has made it next to impossible for them to offer cut flowers on the street. This has had a considerable effect on the stock of carnations which they would have sold had the weather been favorable to them, but for which other outlet had to be found. The 34th Street market was very dull and there was little indication there that Christmas week was on.

The shipping trade was reported by those engaged in it as unusually large showing that the cold snap had shortened over crops over the country generally. The high grades of roses were in short supply but of ordinary quality there was stock enough and of the stored kind there was more than enough. American Beauties brought as high as \$1.50 each for No. 1 specimens. Hybrids brought 75 cents. A good many of the Meteors in market showed the effects of the winter weather and were various shades of black and blue. Grace Wilder was the only carnation that seemed to be badly overstocked. The leader in whites was Lizzie McGowan. There were some grand stocks of this variety. Fancy sorts sold as high as \$5 per hundred.

Bulb stock sold fairly well. The first single yellow narcissus flowers have made their appearance and sell in moderate quantities at \$6 per hundred. The large retailers report the demand for orchids, especially cattleyas, as greatly increased. Orchids, roses, carnations, violets, and mammoth mignonette seem to have been in largest demand.

Among the novelties was some handsome purple lilac which was seen at Young Brothers.

Holly has been unusually good and the sale of this has been very large.

Small plants, such as palms, azaleas, oranges, and solanums have been also in great demand, but required great care in packing, on account of the freezing weather. Some retail florists refused to accept any orders for made up work, confining themselves to cut flower collections only.

Boston.

The Christmas shipping trade has been larger this year than for some seasons past.

Roses have been scarce, the cold weather having shortened up crops all around. There have been too many white carnations on the market, but not enough colored ones to meet the demand.

Prices in general have been scarcely as high as in previous years, but have held up more steadily and late buyers had to pay as much as the earlier ones.

The stock of good violets was very limited. Some of those offered were of little use to anyone.

The trade in holly has gone far ahead of all previous records. Mistletoe has cut almost no figure at all here this season. Most of what was seen was in poor condition.

W. J. Palmer, of Buffalo, and Geo. C. Watson, of Philadelphia, have been welcome Christmas week visitors to the Hub.

Chicago.

In spite of both scarcity and generally inferior quality of stock Christmas trade may be considered fair, as compared with former years. The pernicious practice of "picking" was in full force, and many people rushed in quantities of stuff on Saturday which might better have been in eight days before. One large dealer (commission) reports that on Saturday morning he received as many violets as had been received during all the preceding part of the month, and it was nearly as bad with other houses. Many of the flowers held back were a total loss; it is singular that with all the preaching aimed at this particular class of offenders, growers will hold back their stuff, year after year, regardless of the fact that the holiday itself is a poor day for sales.

There is no question that the bulk of the flowers received were poor in quality, and this had its effect on prices. Red roses and red carnations were in great demand, colored flower taking preference over white ones. Some very good Beauties brought \$9 a dozen, and a few individual flowers reached 85 cents, but it is probable that far more were sold at 50 cents than 75. A limited quantity of good Jacqueminots were in; they brought \$9 a dozen. Meteor sold well, but was not plentiful. There was a glut of Roman hyacinths, which dropped down to an incredibly low figure. Paper white narcissus sold much better than it has been doing; some of the finest noted were grown by W. N. Rudd. They were the grandiflorus form, cut with an abundance of foliage, always an advantage with any bulb stuff. Some good valley was seen. Harrisii only averaged \$2.50 to \$3 a dozen; callas hardly sold at all. In fact, no fancy prices were realized in any one class of stuff; no one complains, but no one seems unduly elated. The general volume of trade may be considered quite up to that of previous years; many of the retailers report an increase, especially in the direction of violets and red roses. Some very fine poinsettia bracts were sold through the Cut Flower Exchange, and were very well received.

In pot plants cyclamens, hyacinths, primulas and marguerites represented the flowering section; there was, perhaps, some advance over the quantity sold last year. A great many fern dishes were sold and a variety of foliage plants.

A good deal of comment was caused among the local trade by the publication of an obviously "inspired" article in an evening paper two days before Christmas, in which it was asserted that the growers had been injuring the unprotected retailers by their extortionate prices. Of course it was all very absurd to any one who knows the trade, but there is no question that such misinformation, when published by a presumably reliable paper, does much harm to the trade.

Mr. John Thorpe was the recipient of

an extremely handsome tea and coffee service of solid silver, a mark of the regard and esteem of the employees of the floricultural department of the World's Fair, December 25.

Robert Overy, a well known florist of Riverside, was struck and instantly killed by a Chicago, Burlington & Quincy train at that place December 20. Mr. Overy was waiting to take a train into the city for the purpose of delivering his flowers, when he stepped on to the wrong track without apparently hearing the approaching train.

At the last meeting of the Florist Club it was decided to begin the payment of the obligations incurred during the first exhibition given by the club, and that have been hanging over the club ever since that time. A majority of those who won the premiums offered at that unfortunate exhibition had voluntarily relinquished their claims, and in fact all are now legally outlawed, but the club felt that it was in honor bound to pay off all just claims even if they could not legally be collected. Unfortunately there has never been a sufficient sum in the treasury at one time to make the payments in full, but in order to have a start made it has been decided to now pay 25%, and follow it up with similar payments on account whenever sufficient cash accumulates in the treasury. At this meeting Mr. Henry Izawa, a Japanese gentleman connected with Japan's horticultural display at the World's Fair, was elected an honorary member of the club.

Mr. James I. Donlan has severed his connection with the Floricultural Bureau of the Fair and has returned to New York.

Toronto.

The annual meeting of the Gardeners' and Florists' Association on December 20 was well attended, 58 members being on hand to record their votes.

The executive committee brought in an excellent report recommending more essays and discussions and greater use of the question box, also fortnightly meetings during January, February and March.

The World's Fair Committee also brought in a report with a long list of plants (about \$8,000 worth and more to come) attached thereto. Mr. A. H. Ewing was recommended to the Ontario commissioner for appointment as superintendent of the horticultural exhibit.

The president having made his retiring speech in his usual genial way and the secretary and treasurer having reported on the year's doings in their departments, the election of officers for 1893 was proceeded with.

The following is the result: President, Mr. Thos. Mantion; 1st Vice-President, Mr. A. Gilchrist; 2nd Vice-President, Mr. W. Muston; Secretary, Mr. A. H. Ewing; Treasurer, Mr. H. Simmcs; Assistant Secretary, Mr. Geo. Mantion; Executive Committee; Messrs. Dunlop, Briggs, Vair, Reeves, Arnold, Tidy, Means.

After this the retiring president, Mr. John Chambers, was presented with a very handsome and artistic illuminated address by the members of the association, and well he deserved it, for a chairman with more tact and less partiality could not be found. Here are the words of the address:

To John Chambers, Esq., Dear Sir: The Toronto Gardeners' and Florists' Association desire on the occasion of your retirement from the president's chair to express to you their sense of the value of



MR. G. BERGMAN'S HOUSE OF CYCLAMENS, FLATBUSH, N. Y.

the services you have rendered, not only to this association but to the horticultural profession generally and of the intelligent manner in which you have conducted the affairs of the association during the three years in which you have held office, together with the hope that as past president you will continue to give it the benefit of your advice and influence. We trust that in accepting this address you will look upon it as an assurance that you retire with the warmest and best wishes of the association."

This was quite a surprise to Mr. Chambers and he replied in feeling terms after which, it being nearly 11 o'clock, the meeting adjourned.

During the counting of the ballots committees were appointed to report on the flowers on the table. The committee on carnations, J. H. Dunlop and H. Dale, reported that "three of the flowers exhibited by Mr. G. Hollis, viz., the pink, white and fancy, appear to have all the requirements of first class carnations, calyx, stem and form being perfect; we would especially mention the pink, it being a decided advance on any flower of that particular shade exhibited so far." Mr. Hollis also had some cyclamens on which Mr. Gilchrist reported: "A fine assortment, especially the crimson." Mr. Geo. Vair showed some flowers on which Mr. Manton reported: "Primulas very good, orchid flowers well grown, the calanthe being a very fine spike of a

variety not often well grown." A flower of *Angræcum sesquipedale* had yards of tail (more or less).

The rose growers report a big demand for roses in outside cities and prices of course are "way up" just now. Business generally is brisk. Weather cold, but no snow. E.

Baltimore.

It is too soon to say with certainty, but it seems to have been a good Christmas as far as the trade in cut flowers is concerned.

The bitterly cold weather made trouble, though, for the plant men, and decorating with live plants was carried on under serious disadvantage. The town has been full of holly for a week, and the best holly seen here in years, so loaded with berries as to seem as much red as green when massed. Most of the florists took advantage of it in decorating their windows and in the windows of Samuel Feast & Sons, Wm. J. Halliday and Mrs. Mary J. Thomas, it was used in profusion. Feast had the windows ciled with it and festooned at the back with wild smilax, arranged naturally as if growing in the form of curtains. The demand for flowers was far in excess of the supply and shipments from the north were in many instances frozen solid, outside supplies could not be relied on to help out. MACK.

Washington.

Through the efforts of our energetic friend, Mr. Benj. Durfee, a bill granting a national charter to the Society of American Florists was introduced in the Senate by Senator Paddock early last week, and was speedily passed. But for the absence of Hon. W. H. Hatch, chairman committee on agriculture, (to which committee the bill was referred last session) this measure would have been reported to and probably passed the House. President elect Wm. R. Smith and Mr. Benj. Durfee are going to push this matter with all possible speed, as soon as Congress convenes after the holiday recess, with a view of getting the charter through in time to take it to St. Louis, when they attend the winter session of the executive committee. It will not be their fault if they fail in this undertaking.

C. LESLIE REYNOLDS.

Carnation for Summer Blooming.

Will some carnation grower tell me which is the best white carnation for summer blooming, and which is the earliest? GROWER.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

American Carnation Society.

The American Carnation Society was organized at Philadelphia, October 15, 1891, with an initial membership of 50.

The aims of the society are as follows: To increase the general interest in the cultivation and use of the carnation; to improve the standard of excellence in the flower; to improve the methods of cultivation and methods of placing it upon the market; to increase its use as a decorative flower; to improve the methods of growing plants and rooted cuttings and marketing the same; to infuse into the grower a more thorough understanding of the general rules of successful business management; to properly supervise nomenclature; to stimulate the growing and introduction of improved seedlings and crosses, by a system of exhibitions and awarding valuable prizes.

At the Philadelphia meeting arrangements were made for a general meeting at New York City the following month.

THE NEW YORK MEETING.

AT THE ST. JAMES HOTEL, NEW YORK.

November 4, 1891.

OFFICERS.

President, Edwin Lonsdale, Chestnut Hill, Pa.; Vice-President, William Swayne, Kennett Square, Pa.; Secretary, C. J. Pennock, Kennett Square, Pa.; Treasurer, C. W. Ward, East Moriches, N. Y.

EXECUTIVE COMMITTEE.

The officers and Robt. Craig, Philadelphia, Pa.; R. T. Lombard, Wayland, Mass.; J. G. Hancock, Grand Haven, Mich.

ESSAYS.

Soils—Albert M. Herr, Lancaster, Pa. Production of Improved Seedlings—Edward Swayne, Kennett Square, Pa. Greenhouse Construction for Carnation Culture—L. Wight, Framingham, Mass. Cost of Producing Carnation Cuttings—J. G. Hancock, Grand Haven, Mich. Business Methods—C. W. Ward, East Moriches, N. Y.

Dissemination of New Varieties—R. T. Lombard, Wayland, Mass.

A committee was appointed to keep an official record of new varieties of carnations introduced, and to supervise carnation nomenclature generally. It was decided to hold the first annual meeting at Buffalo, N. Y., the third Tuesday in February, 1892. Dues were fixed at \$2 a year, and Constitution and By-Laws adopted.

THE BUFFALO MEETING.

AT THE TIFFET HOUSE, BUFFALO, N. Y.

February 16, 1892.

ESSAYS.

Do Varieties Run Out—Warren R. Shelmire, Avondale Pa. Carnations in the Retail Trade—Wm. Scott, Buffalo, N. Y.

Carnation Rust—Prof. J. C. Arthur, Purdue University, Lafayette, Ind. Carnations in Southern California—C. J. Haettel, Redondo Beach, Cal.

John Thorpe's Ideal Carnation—Prof. L. H. Bailey, Cornell University, Ithaca, N. Y.

Carnations as Grown in Europe—E. G. Hill, Richmond, Ind.

A magnificent display of cut flowers was made. The committee on nomenclature reported a number of varieties registered and solicited a full registration with pedigrees of seedlings as far as possible.

The officers were all re-elected for one year.

District vice-presidents were selected as follows: New England, Benj. Grey, Mal-

den, Mass.; Middle States, Wm. Scott, Buffalo, N. Y.; Southern States, Benj. Durfee, Washington, D. C.; Western States, Fred Dörner, Lafayette, Ind.; Northwestern States, R. J. Mendenhall, Minneapolis, Minn.; Pacific States, C. J. Haettel, Redondo Beach, Cal.; Canada, Walter Muston, Box 32, Deer Park, Ont.

At an adjourned business meeting at Washington, D. C., August 16, 1892, it was decided to hold the next annual meeting at Pittsburg, Pa., February 21, 1893.

PROGRAMME FOR PITTSBURG MEETING.

February 21, 1893.

ESSAYS.

A Retailer's Views—Thos. Cartledge, Philadelphia, Pa.

Some Carnation Enemies and Supposed Remedies—C. W. Ward, East Moriches, N. Y.

Sports and Variations—Prof. J. F. Cowell, Buffalo, N. Y.

Carnation Diseases—Prof. Atkinson, Cornell University, Ithaca, N. Y.

Growing New Varieties of Carnations—Sewall Fisher, Framingham, Mass.

Types and Tendencies of Carnations—Prof. L. H. Bailey, Cornell University, Ithaca, N. Y.

Carnation Diseases Other than Rust—Prof. Byron D. Halsted, Rutgers College, New Brunswick, N. J.

An exhibition of carnation flowers will be held in connection with this meeting, to which all growers are invited to contribute without charge. The Chester County Carnation Society offers a gold medal for best six blooms of a variety never offered for sale. The meetings and flower display are open to the public and all interested are invited to become members of the society.

News Notes.

PEORIA, ILL.—J. M. Cole has returned from a visit to Auckland, New Zealand.

WOODSTOCK, ILL.—J. P. Zimpelman has started into the florist business here.

CHICAGO.—A recent incorporation is that of the South End Flower Mission, of this city.

RACINE, WIS.—J. T. Brudahl has recently moved to another part of the city and is building a new greenhouse.

ARCOLA, ILL.—Geo. C. Kemp has sold out his greenhouse establishment and contents to George Munson, who will continue the business.

LINCOLN, NEB.—The twenty-fourth annual meeting of the Nebraska State Hort. Society will be held in this city Jan. 10 to 12. Copies of the program may be had on application to the secretary, Mr. F. W. Taylor, this city.

GRAND RAPIDS, MICH.—The many friends of Mr. C. B. Bowditch will be pleased to know that he is at last recovering from his serious illness of over eight weeks, and hopes to be able to attend to business again in a few weeks.

EASTON, PA.—Fall trade has been fairly good. Weather was against us. Too much cheap stuff from out-door growers. Christmas trade looks very favorable. Large orders for fine green, holly, magnolia, etc., also good trade in palms and ferns for dishes.

MILWAUKEE, WIS.—The Paris Floral Co. have taken half of Chacona Bros.' fruit and confectionery store, 97 Wisconsin

street, and will run a first class retail floral establishment. Fred Foster, formerly designer and decorator for Currie Bros., is manager.

MASSILLON, OHIO.—A. Shorb's greenhouses were almost totally destroyed by fire Dec. 9. The fire is supposed to be the work of an incendiary. Mr. Shorb has suffered in the same way before, both barns and greenhouses being destroyed by fire, supposed to be of incendiary origin, some years ago.

MILWAUKEE, WIS.—The greenhouses of Herman Schwelke, on the Lishon road, just outside the city limits, were destroyed by fire early the morning of Dec. 21. Origin of the fire unknown. The house and barn were saved, but the greenhouses were a total loss. There was insurance on the greenhouses, but none on stock.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—By a practical florist with 6 years' experience; single. Address J. L. SHEA, Anchorage, Ky.

SITUATION WANTED—As foreman of first-class commercial place by florist of extended experience; well versed in all branches from a violet to an orchid. Good references. Address CYCAR, care American Florist, Chicago.

SITUATION WANTED—As foreman or manager in large commercial place; thoroughly experienced in forcing, greenhouse, flowering plants, also roses and carnations; distinct no object. Best of references from leading firms of Europe and this country. H, care American Florist.

SITUATION WANTED—By a practical gardener and florist, 25 years' experience growing plants and cut flowers; good for growing carnations, stulias, violets and roses; single, sober, industrious. Address A. GERGEN, care Progress Hotel, 11 and 12 Chatham Square, New York.

SITUATION WANTED—By young man of 22, 6 years' experience in growing plants and cut flowers for retail and some experience in other branches of the trade. Chicago or north central states preferred. Best of references. Address AMBITIOUS, care American Florist.

SITUATION WANTED—By respectable young man with excellent references, thoroughly experienced in forcing of roses, bulbs, cut flowers and growing of general stock; good hand at making up; well capable of managing commercial place or department. Florist preferred. Address PROSPERITY, care American Florist.

WANTED—Five thousand small plants or cuttings general stock. Address 821 Pearl St., Sioux City, Iowa.

WANTED—Catalogue and price lists of raspberries, blackberries and other small fruits. Address H. MATTHE, 140 Canal St., New Orleans, La.

WANTED—A young man, with some experience, to work in greenhouse, State wages, including board. GEO. N. BELDING, Middletown, N. Y.

WANTED—Two first-class men—one as foreman to look after all kinds of work in and around greenhouses; must understand growing of all kinds of cut flowers, plants, etc.; quick, active and of husky temper. Also a man for growing palms, orchids, ferns and store plants in general from the ground up, one who thoroughly understands the business. I want no man who uses intoxicants. Address R. J. MENDENHALL, Minneapolis, Minn.

TO RENT—Well stocked greenhouses, 5 acres ground, located at Bowman's Mill. Apply W. S. POWERS, Room 16, 34 Washington St., Chicago.

FOR SALE—Whole or part interest in wholesale and retail seed business, situated in good prosperous town. Possession given Jan. 1, 1893. Address B, care J. C. Vaughan, Box 68, Chicago, Ill.

FOR SALE—Greenhouse plant containing 12,000 square feet glass, 8 houses—store and conservatory in city of 60,000. In successful operation. A bargain, as all is new. Address JOHN SOMMERS, Reading, Pa.

HELD AT PRIVATE SALE.

Property of forty-five acres, elegant improvements and conveniently located, a well paying business established to plants, bulbs, seeds, cuttings; five greenhouses 100x24 feet, heated by hot water, and everything in the best of condition. For particulars write

JOHN J. GHEEN, West Chester, Chester Co., Pa.

New York Dec. 22, 1891.

John Burton, Esq.,

Wyndmoor, Chestnut Hill, Phila.

Dear Sir:

The samples of your new rose received to-day and I have not hastily made this decision, which is, that in my estimation, you possess a treasure in this rose.

Aside from its fine habit and noticeable good qualities its color is a most fashionable one and one which has long been sought after in a Hybrid-Tea Rose. When you have grown it longer you will undoubtedly grow it better. I thank you for this opportunity for sampling the first specimens.

Yours very truly,

Thorley

Praise from Sir Hubert Stanley is Praise indeed!

To be a successful retailer of flowers in the Metropolis of this big country requires a smart man. To get to the top of the heap and stay there, requires a genius of no mean order. The introducer of

"American Belle."

is therefore justified in taking Mr. Thorley's estimate of the new rose as the highest of compliments, and as an evidence that a warm welcome awaits the "American Belle" to the buying public so soon as flowers of this magnificent new Rose make their appearance in the market in quantity.

Are you prepared to supply the demand next season? Have you booked your order for young stock? Don't run away with the idea that stock is unlimited, and don't blame anybody if you should be too late.

(See prices and other particulars in last week's advertisement.)

JOHN BURTON, Chestnut Hill, Philadelphia.

100,000 ROSES NOW READY.

We always have a select stock of young Roses in all leading sorts, including all the best novelties.

Our stock will be extra fine, grown with greatest care, and are bound to give satisfaction to any grower of experience.

SEND YOUR LISTS TO BE PRICED.

Our climate and soil enable us to produce Plants and Flowers equal to the best in the country, and our new houses have all new and original improvements.

TEA ROSES 2-inch pots, our selection \$30.00
HYBRID PERPETUALS, 2-inch pots, our selection 40.00

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

New Wholesale Catalogue ready Jan. 1st, 1892.

FOR SALE.

Ten greenhouses, about 15,000 square feet of glass, with two acres of land, and stock for sale very cheap. The houses are in good condition, situated in one of New England's best localities, with a large and extra good home market; heated by a first-class steam plant, cost \$1200, pots and implements. This is a fine opportunity for one wishing to buy an Established Business, as the property is in good condition, ready for the coming season, and will be sold, as the present owner has other interests to look after.

For further particulars apply to

N. D. WINTER,
No. 5 Elm Street, Springfield, Mass.

FOR SALE.

One of the best equipped and arranged Florist stores in upper New York City. Conservatory attached. Must be seen to be appreciated. References if necessary. Address.

64 W. 125th St., NEW YORK CITY.

FOR SALE. THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like,

AMERICAN FLORIST CO.
CHICAGO.

The *MERMET* SPORT of the

SUNNYWOODS GREENHOUSES

(Originated in 1889; and nee THE HUGH.)

The New Rose .

BRIDESMAID

. Has Become

THE STANDARD

PINK

MERMET.

Plants from 2½-inch pots, \$15.00 per 100;
\$125.00 per 1000.

Rooted Cuttings only in thousand lots,
\$80.00 each lot.

First come, first served. And if you send cash with order, deduct "five per cent. off for cash," and I will then also pay the express charges.

Mr. John H. Taylor wrote, May 26, 1892,
* * * "They are the best stock of a new variety that I have ever received."

My blooms of **BRIDESMAID** are received daily at Burns & Raynor's, West 28th Street, New York City.

FRANK L. MOORE,
CHATHAM, MORRIS CO.,
NEW JERSEY.

One hour from Christopher Street and Barclay Street Ferries, New York, on the D. L. & W. R. R.

NOW ON HAND FOR IMMEDIATE DELIVERY,

30,000 BUDDED ROSES, extra strong.

Magna Charta, Ulrich Brunner, Captain Christy, Persian Yellow, La France, Bar. Rothschild, etc.	Per 1000
\$10.00 per 100; \$6.00 per 100.	Per 100
Convallaria majalis, German Pips, extra	\$ 9.00
Tuberose The Pearl, extra	7.00
Single Begonias, fine mixed, strong bulbs	Per 100
4.00	4.00
Gloxinia, fine mixed, strong bulbs	6.00

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Ask for General Wholesale Catalogue.

Mention American Florist.

ROSES.

TEAS \$30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,

TERRE HAUTE, IND.

GREENHOUSE HEATING.

BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments. Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly recommended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,
AMERICAN FLORIST,
CHICAGO.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedmen, and Dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ANOTHER SPECIAL NUMBER.

On January 19 we shall take much pleasure in presenting to our readers another grand special number. It will be devoted to the carnation. The carnation has been making rapid strides in recent years. Some of our brainiest men are now giving their whole time and thought to its improvement, and fashion has accepted it as a favorite second only to the rose. The FLORIST is glad to take due cognizance of this fact and proposes to give the "Divine Flower" that recognition and prominence to which its present position entitles it. The reading columns will comprise valuable contributions from our most successful practical carnationists and these articles will be beautifully illustrated. We shall spare no pains to make this the most notable of our successful series of special numbers and a full and reliable record of the achievements of our carnation growers up to date. Advertisers have learned that no medium for reaching the whole trade has ever been given them equal to that furnished in these special numbers of the AMERICAN FLORIST. This one will be no exception to the rule. Those having carnations to offer or new seedlings to introduce are particularly reminded of the rare opportunity here offered. No advance in price from our regular advertising rates.

OUR TRADE DIRECTORY.

We shall issue about February 1, 1893, a supplementary sheet embodying all the corrections in addresses and additions to the list of those engaged in the florist, nursery or seed trade, of which we can obtain information. At the present rate of progress the number of additions and changes in such a list in the course of 12 months is very large. Also in the compiling of such a work as the directory some errors are unavoidable. Such as are noted we shall correct, and we would respectfully ask our subscribers to aid us by calling our attention to such inaccuracies or omissions as may have come to their notice.

The supplementary sheet will be of the same size and form as the leaves of the directory and will be distributed gratuitously to all who have purchased copies of the 1892 edition.

A few pages of the supplement will be devoted to advertisements, for which rates will be given on application.

A "FINGER STAPLE."—We have received from Thos. W. Breen, San Francisco, a sample of the implement he is offering under the above title. It is of steel or chilled iron rolled into shape to fit over the index finger and provided with a metal projection at the end shaped like

the nail of the finger and a little over half an inch in length. We would imagine the tool to be quite useful in certain gardening operations.

Wiring Rose Beds.

ED. AM. FLORIST:—I send herewith sketches showing our method of wiring our rose benches which I believe has some points of convenience not possessed by the plan usually followed.

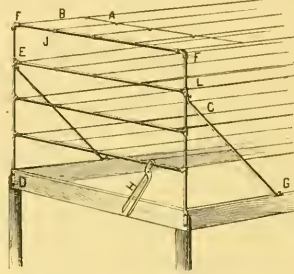


Fig. 1. Center Bench.

- A. Steel wire (moveable) for keeping stretched wires at equal distances apart.
- B. No. 16 galvanized wire.
- C. Spur of $\frac{1}{2}$ -inch pipe.
- D. Frame, bolted to bench.
- E. See Fig. 2. (These are the only bolts used)
- F. See Fig. 2. (to keep frame together).
- G. Foot of spur bolted to bench.
- H. Tongs for turning pipe to stretch wires.
- I. Small holes through which to fasten wires.
- J. Holes in tees with bolts to lock horizontal pipes after stretching wires.



Fig. 2. Section showing the revolving $\frac{1}{2}$ -inch pipe in $\frac{1}{2}$ -inch opening.

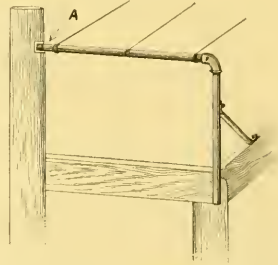


Fig. 3. Side bench. A. Hole large enough to allow pipe to slip back to take apart.

The sketches will I think make the matter plain. To remove the wires, for clearing or refilling the bench, take out bolts F and L and the whole apparatus readily comes apart and can be hung up over-

head to roof, leaving the sides and spurs fixed to the bench. As wires will sag some after being in use for a time we find it very convenient to at any time be able to take up the slack by simply taking out the bolts that lock the ends of the pipes, giving the pipe a few turns with the tongs and again locking with the bolts.

C. RAYNER, Mgr. Anchorage Rose Co.
Anchorage, Ky.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our trade directory and reference book.

Wisconsin Flower Exchange, Wholesale Florists,

AND DEALERS IN FLORISTS' SUPPLIES.

131 Mason St., MILWAUKEE, WIS.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

H. L. SUNDERBRUCH,

WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,

COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application.

SMITH, The Florist,

GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

CUT FLOWERS WANTED

from growers within shipping distance.

Correspondence solicited. Address

LOUIS SMITH,

Flower Exchange, Hot Springs, Ark.

Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.

10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

Mention American Florist.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.,
 Wholesale Dealers in
Cut Flowers
AND FLORISTS' SUPPLIES.

CHAS. W. McKELLAR, Mgr.,
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

We are now located at our new quarters in
 Chicago Cut Flower Exchange, and are
 prepared to fill orders in very best manner. Give
 us a trial order and see how we please you.

M. OLSON,
 Wholesale **FLORIST,**
 66 WABASH AVENUE,
 Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
PHILADELPHIA.
 Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th ST.,
 Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 24.	
Roses, Gontier, Niphotos, Perles	12.00 @ 15.00
" Watteville, Cush	15.00 @ 25.00
" Mermet, Brides	20.00 @ 25.00
" Bridesmaid, La France	25.00 @ 30.00
" Beauty	50.00 @ 12.00
" Meteor	20.00 @ 15.00
" Hybrid	40.00 @ 15.00
Carnations	2.50 @ 5.00
Violets	2.50 @ 3.00
Valley, narcissus	2.50 @ 3.00
Paper White, Roman hyacinths	2.00 @ 3.00
Callas, Harriell	20.00
Micromet	5.00 @ 15.00
Cattleyas	50.00
Smilax	20.00
Cypripedium	25.00
Adiantums	1.00 @ 1.50

BOSTON, Dec. 24.	
Roses, Niphotos, Gontier	10.00 @ 12.00
" Bride, Mermet	16.00 @ 20.00
" Perle, Sunset	12.00 @ 15.00
" Woodton, La France	20.00 @ 25.00
Carnations	2.00 @ 4.00
Valley, narcissus	5.00
Hyacinths, Paper White	2.00 @ 4.00
Violets	2.00 @ 2.50
Callas	25.00
Bouvardia	2.00
Stevia, pansies	2.00
Adiantum	12.00 @ 15.00
Asparagus	50.00

PHILADELPHIA, Dec. 24.	
Roses, Bonites	10.00 @ 12.00
" fancy	20.00
" Perles, Gontier, Niphotos	12.00
Carnations	3.00 @ 4.00
Valley	6.00
Hellon	2.00
Bouvardia	2.00
Violets, double	1.50
" single (niphotos)	5.00
Romans	3.00 @ 4.00
Narcissus	4.00
Adiantum	15.00 @ 20.00
Smilax	15.00 @ 20.00
Asparagus	75.00

CHICAGO, Dec. 24.	
Roses, Gontier, Niphotos	8.00 @ 12.00
" Perle	8.00 @ 10.00
" Mermet, Bride, Woodton	15.00 @ 20.00
" La France, Albany	15.00 @ 20.00
" Bennett, Meteor	15.00 @ 20.00
" Beauty	25.00 @ 30.00
Carnations, short	1.50 @ 2.00
long	2.00 @ 4.00
" fancy	3.00
Callas, Harriell	20.00 @ 25.00
Romans	3.00 @ 5.00
Narcissus	4.00
Valley	8.00
Marqueteries	1.25
Violets	2.00 @ 2.50
Adiantum	1.00 @ 1.50
Smilax	15.00 @ 18.00
Common ferns (1000)	2.00

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
 67 Bromfield Street, BOSTON, MASS.
 Mention American Florist.

N. F. McCARTHY & CO.
 Wholesale Florists
 AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

WELCH BROS.,
 Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

When you write to any of the ad-
 vertisers in this paper please say that
 you saw the advertisement in the
AMERICAN FLORIST.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
 WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
FRANK D. HUNTER, JAMES PURDY,
 Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
 117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
NEW YORK.
 BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist
 Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
NEW YORK.
CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will
 be 25 cents per string. Quality first-class. Prompt
 attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers
 on this page please mention the AMERICAN
 FLORIST.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Weathersfield, Conn.

THE ONION SEED MARKET has been a little weaker for the past ten days on most kinds except whites, an unsteady and nervous feeling prevailing. The result will be slightly lower retail prices in some cases where catalogues were not already closed. There is no more certainty now than ever that the stock of onion seed is likely to exceed the demand, but as the battle has not yet opened, all are a little shaky while waiting and listening for the sound of the first guns. Some of the leading eastern houses who "took some good nibbles" at an apparently small surplus from California, have, on comparing notes, been somewhat surprised to see how like the widow's curse of oil that surplus held out. California is really a great state and so are her products, and as the Professor's returning sleeper crawled slowly over the Rockies and with quickening speed moved down the western slope of the great divide, we thought we saw him make a sweeping farewell gesture with his left hand and gently shake a bag of cash and small surplus in the other; that half shrewd, half serious expression seemed to have relaxed and softened into a kind of satisfied look. Were his thoughts already on the green alfalfa fields and Christmas cheer of his home or did they still linger with the princes of the seed trade in the quiet Quaker City or on Manhattan Island? "Watch and pray" should linger with us as a memory for several weeks to come.

ENGLISH GROWERS are offering Flat Danvers onion seed as low as 40 cents per pound. Would not be strange if some such stock was thrown on the American market.

PASSED THROUGH CHICAGO:—C. C. Morse, W. Langbridge, H. A. Johns.

Most vine seeds except watermelon are believed to be rather short.

Patents Recently Granted.

Fruit picker, A. Hogg, Akron, O.; Manure distributor, R. J. Morris and R. L. Wiggins, Alexanderville, Ga.; Fertilizer, R. Hasson, Gadsden, Ala.; Fruit box, W. R. Stokely, Antasia, Fla.; Shearing machine for fruit packages, J. H. Schumaker, Saugatuck, Mich.; Fruit picker, R. Mays, Strasburg, O.; Seed dryer, H. T. Hopkins, Cape Vincent, N. Y.; Lawn mower, H. Broom, Springfield, O.; Hand planter, I. Mackey, Hollandsburg, O.

SYRACUSE, N. Y.—The nursery firm of Smiths, Powell & Lamb has been incorporated with the title Smiths & Powell Company. The capital stock is \$100,000, and the principal business office will be at Lakeside, in the town of Geddes. There are four directors, including William Brown Smith, Wing R. Smith, W. Judson Smith and Edward A. Powell, who have 150 shares each of the capital stock.

Please mention the American Florist every time you write any of the advertisers on this page.

OSKAR KNOPFF & CO.,

SEED GROWERS,

Erfurt, = Germany,

FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

The Trade SEED CATALOGUE of

C. PLATZ & SON, ERFURT, PRUSSIA

Will be mailed to all applicants, by their Agent,

C. RAOUX, 296 Pearl Street, New York.



BEST GERMAN FORCING PIPS

Price: \$9 the 1000,

\$20 the box of 2500,

Less ten per cent. for prompt cash.

AUGUST RÖLKER & SONS,
NEW YORK, P. O. Station E.

SEEDS!
PLANTS! BULBS!

Everything appertaining to the Farm
and Garden of the best and choicest
quality. **PRICES RIGHT.**
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

PETUNIA SEED.
An extra fine collection of large flowering Double
and Single fringed varieties, mixed, choicest colors,
not grown and hand fertilized; grown specially for
florists; no finer strain of Petunias to be had. Trade
Pkt., 30 seeds; 2 Pkts., 50 seeds; 5 Pkts., \$1.00.
—JOHN F. RUTY, Shrewsburytown, Pa.
FLORAL DESIGNS
The Cut Flower Worker's friend. Fine book
of 160 pages. Send \$3.50 for it to
J. HORACE McFARLAND, Harriburg, Pa.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

**FROST RIPENED.
BEST HAMBURG PIPS.**
ASPIDISTRA, variegated leaved.
FICUS ELASTICA, spring propagated.
Get lowest quotations, and order
soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered
for sale from cold storage.

2,500 to 5,000 Pips at \$8.50 per 1000
7,500 to 10,000 Pips at 8.00 "
12,500 to 25,000 Pips at 7.50 "

C. C. ABEL & CO., New York.
P. O. Box 523.

Send for Catalogue of
**JAPAN BULBS, SEEDS,
AND SHRUBS.**
**ARAUCARIAS,
AUSTRALIAN Palm Seeds,**
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

1st QUALITY.

We have gained the reputation of having the
finest TUBEROSES in the world, and if you would
have the **VERY BEST**, send to us for sample.
Two important items, viz.: Quality the best. Price
the lowest. Send to-day for FREE sample by
mail POSTPAID. Address

H. G. FAUST & CO.,
64 & 66 N. Front St., PHILADELPHIA, PA.

KENTIAS { **BELMOREANA,
FORSTERIANA,**
\$3.00 to \$15.00 each.

John Burton,
CHESTNUT HILL, PHILADELPHIA, PA.
Mention American Florist.

OUR NEW TRADE DIRECTORY

FOR 1893
Contains a list of all the FLORISTS, NURSERYMEN
and SEEDSMEN of the United States and Canada.
Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

A Great Pair.

EDNA CRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of **Aurora** at \$15.00 per 100, and **Golden Gate** at \$3.00.

Some Specialties for 1893 will be

Aurora Thos. Cartledge
Pearl Dorner
Golden Triumph Mrs. Hitt
Grace Darling Ben Hur
Puritan Daybreak
Emily Pierson White Wings
Orange Blossom Edwin Lonsdale
Angelus American Flag.

EDW. SWAYNE, Carnationist,

KENNETT SQUARE, PA.

Mention American Florist.

GOVERNOR RUSSELL

The finest white Carnation
ever introduced.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. E. Dreer, J. R. Freeman, and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES

100 Paul Neyron, strong plants....\$10.00 per 100.
20 other leading varieties.....\$10.00 per 100.
\$0.00 per 1000.

CHRYSA nth em u m s.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

CARNATIONS

ROOTED CUTTINGS.

Send for Price List of all the leading varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.
Mention American Florist.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready
January 1, 1893.

E. T. LOMBARD, Wayland, Mass.

ROOTED CUTTINGS OF

CARNATIONS

All the leading varieties.
Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CUTTINGS.

Carnations.

Three houses planted to Daybreak, one to Aurora, one to Grace Darling and nine to other varieties: Golden Triumph, Puritan and others. Let me figure on your orders, I will try and do them right both in quality and price. All inquiries will receive prompt attention. Write before placing your orders.

LIZZIE MCGOWAN now ready, at \$2.00 per 100; \$15.00 per 1000.

SEEKING IS BELIEVING. CALL AND SEE ME OR SEND FOR A LIST.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at
MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

Rooted Cuttings.

Carnations, New Scarlet, Emily
Pierson.....\$3 00
Leading varieties.....1 25
Violets, Russian and Neapolitan.
Coleus and Alternantheras in var.

A. N. PIERSON, Cromwell, Conn

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS.

SEND FOR LIST.

ORDERS BOOKED NOW FOR MY SPECIALTIES FOR 1893.

New Jersey.—A scarlet Carnation hard to beat.....\$12.00 per 100
Old Rose.—Old rose pink Carnation.....\$12.00 per 100

Nellie Bowden.—Pure bright yellow Carnation.....\$60.00 per 100
READY IN FEBRUARY.

Other varieties of Carnations, both old and new.

JOHN MCGOWAN, Orange, N. J.

A FULL HAND BEATS A GREAT PAIR.

DORNER'S SEEDLINGS.

Wm. Scott,
Diaz Albertini,
Elizabeth Reynolds, \$10.00 per 100.
Richmond, \$75.00 per 1000.
Purdue,
Spartan, February Delivery
Wabash,
Dr. Smart, Orders booked now.
Blanche,
Western Pride.

Cottage Garden Greenhouses,
EAST MORICHES, N. Y.

C. W. WARD, Manager.

ORANGE BLOSSOM CARNATION.

One of the leading new varieties, and an immense bloomer; received a Certificate of Merit in 1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.

MAY FLOWER, splendid variegated, \$2.50 per 100.
THE JENNINGS STRAIN OF PANSIES, trade packet, 2000 seeds, \$1.00. Fine, stocky plants, small, 60c. per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,
SOUTHPORT, CONN.
Lock Box 254.

ROOTED CARNATION CUTTINGS

READY FOR IMMEDIATE SHIPMENT.

	Per 100	Per 1000
Mrs. Fisher.....	1.50	12.50
Hinze's White.....	1.50	15.00
Lizzie McGowan.....	2.00	20.00
Puritan.....	3.00	25.00
Pearl.....	4.00	30.00
Grace Wilder.....	1.50	12.50
Fred Creighton.....	2.00	15.00
Angelus.....	3.00	25.00
Ben Hur.....	5.00	50.00
Thos. Cartledge.....	5.00	40.00
The Two Coronets (each).....	5.00	40.00
Buttercup.....	4.00	32.50
Cesar.....	5.00	40.00

Others ready during January.
The Fines. **C. J. PENNOCK, Kennett Square, Pa.**

ROOTED CUTTINGS of CARNATIONS

Ready now in large quantity, including
GRACE BATTLES, EDNA CRAIG, DAYBREAK, PURITAN, AURORA, and fifty other best standard varieties.

Trade price list sent on application.

JOSEPH RENARD, Unionville, Chester Co., Pa.

ROOTED CUTTINGS

Of the Best Old and Most Promising new varieties of

CARNATIONS.

Write for a catalogue and send list of wants for an estimate.

J. J. Styer,
CONCORDVILLE, PA.

PHLOX SEED, EXTRA.

Choicest *Drummondii* Grandiflora.

A selection of the largest and finest flowering varieties that can be procured; grand colors and great; very highly prized by the florists who grow this strain in pots last season; do not fail to see it. Trade Pkt., 20 cts.; 5 Pkts., 60 cts.; 7 Pkts., \$1.00.

JOHN F. KUPF, Shiremanstown, Pa.

Chrysanthemum Show Finances.

The article of your correspondent G. L. G. (of course we all know who that is) with the above caption was most interesting reading, and I trust others may be induced thereby to give similar particulars of shows held in their city. The Baltimore Club, whose show was such a success, have, I see, for some incomprehensible reason, refused to give any particulars to the press, which appears at this distance at least, to be rather a "dog in the manger" way of doing business. Though after all it seems to me that the public in each city has to be catered to after its own special customs; what might be a drawing card in one city, might kill the show in another, and although hints may be gathered from the way other shows are conducted, the committee in charge have to carefully consider matters pro and con, before introducing new ideas into their management.

In Toronto we have all the best class of people (I mean the moneyed class) with us, the middle class is the one we want to attract, and this of course has to be done without offending the class above. The lower class can always be got by low admission fee and advertising through certain mediums. We labored under one great disadvantage this year in that there was an affair entitled "Ye olde Englyshe Fayre," in aid of one of the principal charitable institutions, going on at the Horticultural Pavilion all the week, previous to that in which our show was held, which it seems literally cleaned out the purses of society people. Anyone who went in with a \$10 bill in his pocket was lucky if he got out with ten cents. This affair cleared over \$4000 after paying all expenses. The admission fee was 50 cents.

Our gate receipts were less this year than last year, and our prize list was larger. Here is the way the thing stands:

Total expenses of show,	\$44 83
Prizes,	512 50 957 33
Total receipts, including prizes donated, entry fees, gate receipts, &c.,	766 08
Cash from Association funds,	191 25 957 33

It should be mentioned that the city gives us the use of the Pavilion free of all expense, with the exception of a considerable number of complimentary tickets which are distributed among the Aldermen.

Florists!



It will pay you to consult my list before buying your

ROOTED CARNATIONS.

I can supply the leading novelties of 1893 and 30 best standard sorts, new and old.

ROOTED COLEUS.

In 25 varieties, best bedders and lancies, including a new yellow that will be an acquisition.

Descriptive Trade List

Send on request. Address

ALEX. McBRIDE,

ALPLAUS, N. Y.

Mention the American Florist when writing to advertisers on this page.

Palms, Ferns, Rare or Fancy Foliage Plants;

ORCHIDS AND GYPRIPEDIUMS IN FLOWER;

FOR HOLIDAY TRADE.

✱ ✱ ✱ ✱ ✱

Send in your list of wants, or call and examine our unsurpassed stock of these plants.

PITCHER & MANDA,

UNITED STATES NURSERIES,

SHORT HILLS, N. J.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

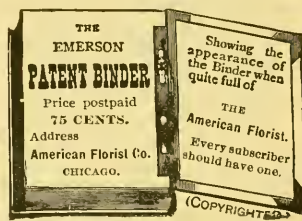
Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.



ROSES. Our TRADE DIRECTORY contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.
AMERICAN FLORIST CO., CHICAGO.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

SMILAX.

10,000 Strings now ready at 15 cts per string

ROSES.

100,000 from 2½-in. pots. Prices on application.

Also 5,000 Souperets, from 3½-in. pots at \$5.50 per 100; \$50.00 per 1000.

THE NATIONAL PLANT CO.,

DAYTON, OHIO.

Mention American Florist.

Please mention the American Florist every time you write any of the advertisers on this page

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT.		
Jan'y 10 1889		
John Smith		
100	Verbenas	3 —
50	Geranium	4 —
		7 —

CREDIT.		
Jan'y 10 1889		
Richard Roe		
500	4 inch pots	5 —
17 1/2	2 1/2 "	5 —
		10 —

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the house or in the field—and afterwards filed. Tickets for each transaction in your business will make data from which a book-keeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, \$1.40.

AMERICAN FLORIST CO.,

CROZY ANNAS.

WE ARE HEADQUARTERS

for all the Novelties, and in addition control **EXCLUSIVELY** several grand varieties which we now offer for the first time. We will not be undersold on any of the list.

J. C. VAUGHAN,
New York: **CHICAGO.**
12 Barclay Street. P. O. Box 688.

Greenhouses: Western Springs. . . .
Mentlow American Florist.

IF YOU WISH TO GIVE YOUR
BUSINESS A BOOM!

PUT IN THE
SNOW GREST DAISY

T'will help to cheer the winter's gloom,
And make the times go aisy.

Stock practically unlimited. All this **DAISY** needs is to be seen to be appreciated. It can **BLOW ITS OWN HORN** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede the variety of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar; 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—a few ounces left. 500 seed 30c.; 1000, 80c.; 1/4 oz. \$1.50; 1/2 oz. \$3.50; 1 oz. \$4.00. Plants of same size, per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strain, 10 fine mixtures, plenty of whites, intense crimsons and purples, with all the intermediate colors and tints, in packets of 100 seeds, 20c.; 2 1/2 oz. \$1.10; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose; you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds, 25c.

Double fringed Dianthus, fine strain, all colors mixed, trade packet, 20c. Rounded cuttings and small plants of our leading specialties later. Address, cash with order, please, J. C. GIBSON, Woodbury, N. J.

CHRYSANTEMUMS.

FINE STOCK PLANTS.

Crown of the Standard varieties, 20 cents each.

WHITE.	PINK.
Ivory Domination	Mermald
Minnie Wainmaker	V. H. Hallock
Mrs. Langtry	Waban
Frank Thompson	Eda Prass
L. Canning	Mrs. Irving Clark
Mrs. A. Hardy	Mrs. Pottler
Mountain of Snow	Mrs. D. D. L. Farson
Vonitz	John Good
	M. Boyer
	Louis Bochner
YELLOW.	RED AND BRONZE.
H. E. Widener	Callington
W. H. Lincoln	Elmer B. Smith
E. G. Hill	Edouard Audigier
Rohallion	Mistoe
Mrs. L. C. Price	W. W. Coles
Archie	
Kioto	
Miss M. Weightman	

BROWN & CANFIELD, Springfield, Ill.

CHRYSANTEMUMS.

ROOTED CUTTINGS.

Lincoln, pipe hybrids; Ada Scandling, Domination, L. Bochner, Rohallion and 20 other good market sorts, \$1.50 per 100; Jessica and Ivory, \$2.50 per 100—Ready for delivery Jan. 15th.

Address **J. G. BURROW,**
FISHKILL, N. Y.

New Chrysanthemums.

40 VARIETIES INTRODUCED IN 1892.

Twelve Plants for One Dollar.

Now ready for delivery. Send for Catalogue.

M. B. LITTLE, Glens Falls, N. Y.
Mention American Florist.

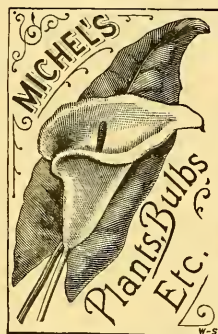


CYCLAMEN FLOWERS will sell if they are good; CYCLAMEN plants also. The **giganteum strain** is the only one worth growing if you grow for sale, and there are strains and **strains of the giganteum** also. It is not how cheap, but how good! Remember that! **Gardiner's strain of giganteum** comes high; but it's worth the difference. Sow at once for next winter's flowering. \$2.00 per 100 seeds; \$3.00 for 500 seeds; \$15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Street, PHILADELPHIA, PA.

Our trade list of choice Flower Seeds free.



Write for wholesale list.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

THE SMILAX KING!

Who?
Where?

KOFFMAN,
WALDEN,
Orange Co., N. Y.

What?

SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? **ALL THE YEAR AROUND.**

And he pays the Express.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100, \$6.00, sent by mail.

BRAUER & RICHTER,
MCCONNELLSVILLE, O.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society on Sept. 16-19, we took with our Begonias Fourteen First Prizes, including the Gold Medal and also the Affourth Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

VERBENAS

**MAMMOTH
BEST SORTS,
CLEAN, HEALTHY,**

\$5.00 per 100, \$25.00 per 1000.

Rooted Cuttings . . . \$1.25 per 100, \$10.00 per 1000
Pelargonium—monthly flowering Fred Dornier—
ready Feb. 1st, \$10.00 per 100.

Roses, H. Ps . . . \$1.50 per 100, \$15.00 per 1000
Forcing and Bedding Teas . . . \$3.50 per 100

JOSEPH HEIN, Jacksonville, Ill.

Mention the AMERICAN FLORIST
when writing advertisers on this page.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps . . . \$3.00 per dozen
" " . . . \$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

CLEMATIS.

2 Year Choice Assortment	Doz.	Hundred
H. P. Roses, Choice named kinds . . .	2.00	15.00
Monthly "	1.50	10.00
Daisy Snowflake, strong plants	1.25	8.00
Dahlias, field grown, choice named . .	1.25	8.00

F. A. BALLER,
BLOOMINGTON, ILL.

Genista Racemosa.

Fine, bushy plants in 8-inch pots, for sale cheap for want of room. These plants will make splendid Easter plants.

LEMUEL BALL,

WISSINOMING, PHILADELPHIA.

VERBENA SEED.

Mammoth Flowering. Extra.

This grand strain of Mammoth Verbenas has given perfect satisfaction to my many customers in the trade, and is justly claimed to be the finest in cultivation. Plants measure an inch in diameter, in immense umbels, of the finest colors. Liberal trade pkt. 25 cents; 5 pkts. \$1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Foreign Notes.

A white variety of Anthurium Andreanum has originated with a Belgian amateur; it has received the somewhat unwieldy title of A. Andreanum Wanlikeanum. The plant preserves all the characteristics of the ordinary form, excepting the color of the spathe.

A new form of Adiantum cuneatum has made its appearance; the pinnules are handsomely variegated with silvery white. It is called A. cuneatum foliis argenteis variegatis, which is certainly descriptive, but liable to abbreviation for trade purposes.

A handsome dwarf Alocasia is A. Edwardsi; it has large and robust leaves with very short petioles. The leaves are broad and sagittate, the upper surface metallic green, slightly glaucous, the under surface soft reddish purple.

Anthurium Londinense is a fine garden hybrid, having bright scarlet spathe; it is broad, heart-shaped, abruptly narrowed to a point. The leaves are leathery, and rich dark green in color.

Among new orchids is Sarcochilus borneensis, a native of Borneo. The flowers resemble those of an angraecum, while the growth is like an arides. The oblong leaves are spotted with brown on both upper and under surface. Short spikes of yellow flowers rise from the axils of the leaves. The sepals and petals are linear, and the three lobed lip is marked with yellow spots. Another new orchid is Stanhopea Lowii, which is at present very rare. The sepals and petals are straw colored, the lip waxy white and fleshy. It shows the odd shape characteristic of the stanhopeas, and has a hyacinth fragrance.

Pansies.

At Lincoln Park, Chicago, pansy seed is sown on Christmas day instead of in the fall. The seedlings are pricked out in flats as soon as large enough to handle, and carried in a cool greenhouse through the winter until time for planting out. This is considered much less trouble and expense than carrying through the winter in frames, as well as being much more certain in results.

"CHRYSCOLA"

COLEUS. Rooted Cuttings.

BEST VARIETIES. BEST STOCK.

75 cents per 100; \$3.00 per 1000.
Cash with order.

FUCHSIAS are all ordered to Jan. 10th.

Send for Chrys-Cola Price List.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

NOVELTY FOR 1893!

Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as of other EXTRA CHOICE FLOWER SEEDS free on application.

FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.

Adiantum Capillus Veneris,

The coming Fern for florists. For reasons why see AM. FLORIST, issue of September 1st, page 119.

Splendid young stock, 2 and 2½-inch pots, now in prime condition to ship. Price \$8.00 per 100.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5-inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • Bay City, Mich.

For Mildew on Roses and Carnation Rust
USE FOSTITE!

It Costs Nothing to Try Fostite!

A Five-Pound Sample Package SENT FREE
with an order for one of JOOSTEN'S MAGAZINE
BELLOWS. Price \$3.50. Cash with order.

SOLD BY DEALERS IN SEEDS AND FLORISTS' SUPPLIES.

C. H. JOOSTEN, 3 Coentjens Slip, New York.

For Sale in Chicago by E. H. HUNT, 79 Lake Street.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

BOSKOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSES, for forcing, per 100, 9.00

In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Roban, Merville de Lyon, Perle des Blancs, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, spiraeas, etc. We also have Palms, Dracenas, Arancarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.

TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,
Nursery & Greenhouses: 363 to 312 Wayne St.,
SAN FRANCISCO, CALIF.

HARDY PLANTS.

We have them. Write us about it.

Azalea indidifera. Magnolia glauca, Kalmia latifolia, Xerophyllum, collected. Fine collection Hardy Perennials and Hardy Flowering Shrubs.
Wholesale Trade List FREE. Send samples of what you want

ROGERS NURSERIES, Moorestown, N. J.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

HEADQUARTERS for WATER LILIES

All the newest and best in cultivation, including all the latest French hardy hybrid Nymphs. Seeds, tubers and plants. Catalogue and price list on application.

WM. TRICKER, Dongan Hills, N. Y.

American Gardening

A - -
Pretty
Garden
Home for
\$1.00.

A Great Dollar's Worth.

IS THE COUNT RIGHT?

1. More than 800 beautifully printed pages of fresh, bright, readable, practical matter.
2. About 900 choice illustrations that illustrate.
3. The benefit of several large experiment gardens and orchards in widely separate localities.
4. The work of scholarly editors who are skillful horticulturists.
5. A magazine for every lover of nature; the man or woman who owns a geranium, a flower bed, or a costly lawn; every one who "sits under his own vine and fig tree;" the suburban resident and country gentleman; the commercial florist, the fruit grower, and the gardener.
6. Artistic plans by landscape architects for laying out readers' grounds, in every issue, such as cost hundreds of dollars in the usual way.
7. An inquiry department which answers all questions from readers.
8. All in all the most complete and profusely illustrated gardening journal in the world. Yet it costs only \$1 a year.

FREE to subscribers who pay for mailing only, all of the following "Novelties" never before offered.

15 magnificent New Hardy Roses, Rosa Rugosa Hybrids.

The new Carman Grape. Retail price, \$5 per vine.

200 New Cross-bred Tomatoes. Crosses among best varieties.

A new Early Potato, pronounced the best ever introduced.

This collection can not be bought—is only obtainable by our subscribers. Worth \$25 to any bright cultivator. Valuable Cash Prizes to our subscribers for best products from above.

Specimen of magazine for 10 cents.

THE RURAL PUBLISHING COMPANY.

Times Building, New York.

Locomotive Boilers for Heating.

Replying to subscriber's enquiry in the FLORIST for Dec. 22 I say yes. We have used such a boiler and continue to do so. We would consider it the best were it not for the water-lined fire box. For this reason we prefer the common tubular boiler set in brick. But they both work well if set so the dome from which the flow-pipe leads is a *trifle lower* than the balance of the pipes. There is really no difference in principle, but this boiler stands so high that it is not so convenient in all situations. C. B. W.

If your correspondent, "Subscriber," will state his question with reference to the application and system of piping a locomotive boiler or a common tubular set in brick, more fully, I shall be pleased to give him any information I may possess on the subject. In the first place does he wish to use either one in particular? This will depend upon the kind of fuel and the amount he wishes to burn. In the second place does he wish to use water entirely, or steam or a combination of both?

A proper answer to the above is absolutely necessary for a proper reply to his question. Most florists appear to think that anything in the shape of a boiler will answer the purpose, without considering the conditions and demands; this no doubt is the cause of some of their large coal bills, which, the writer has observed in many cases, would financially ruin an ordinary commercial establishment. J. E.

You can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

HARDY CUT FERNS

MOSS SPHAGNUM AND GREEN SHEET.

A1 IVY LEAVES. BOUQUET GREEN AND FETTERING of all kinds in any amount on hand.

H. E. Hartford,

18 Chapman Place, BOSTON, MASS.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vanghan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,

289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

Mention American Florist.



Wrought Iron

Pipe,

Fittings,

Valves,

ETC.

78 JOHN ST., NEW YORK.

WELLS & GOUTAN CO., Ltd.

Mention American Florist.

GARDENING

▲ ▲ ▲ To all Florists. ▲ ▲ ▲

Do you know that this new paper, printed twice a month, will answer seven days in a week all technical questions, asked by dozens of your customers in regard to the treatment of their plants, which, to answer each verbally, would require many valuable half hours. Why not tell them "Here is a paper at \$1.00 a year, telling you more in each issue than I can do in an hour." You save time, make a commission on the subscription and please your customer. Think of it and act as our agent.

GARDENING COMPANY, Monon Building, Chicago.



Fancy.



Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

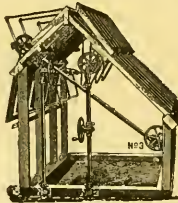
FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

THE STANDARD Ventilating Machines



Received best awards

at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

TOBACCO STEMS



FOR FLORISTS.

Packed in bales.

PRICE:
200 lb. bale.....\$2.50
500 lb. bale.....\$5.00
1000 lb. bale.....\$9.00

CANE STAKES.
Fresh stock per 1000,
7 to 10 ft., \$7.00.

WM. ELLIOTT & SONS,
SEEDSMEN,
54 & 56 Dey St., NEW YORK.

H. BAYERSDORFER & CO.,
WHOLESALE

FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSHUETZ & CO.,

FLORISTS' • SUPPLIES.

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists,
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

OUR SPECIALTY.



S

For Florists, Plain and Fancy; also a full line of

FLORISTS' SUPPLIES,

At Wholesale only. Send for List.

August Rölker & Sons

New York,

P. O. Station E. 136 & 138 W. 24th Street.

CUTS!



Wood Engraving,

Zinc Etching,

Half-Tone,

Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,

183 Monroe Street,
CHICAGO.

ENGRAVERS.

STOTT'S SYRINGE.



Read Advertisement in next week's issue.

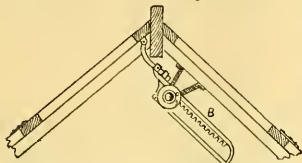
THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
201 Amity Street, FLUSHING, Queens Co., N. Y.

SEE WHAT THE FLORISTS SAY ABOUT

The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,

Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more Order Sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."

some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,

HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

CYPRESS GREENHOUSE MATERIAL



JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,

from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

Mention the American Florist when writing to advertisers on this page.



With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent

fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, | Address 13 Green St.,
Treas. & Mangr. | Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

ESTABLISHED

1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.



Pat. 1882, '85, '86,
'88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose

Sizes, ¼-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Round Hose not of our manufacture is an infringement on one or more of our

Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mfrs and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

W. E. SMITH,

Successor to SMITH & SMITH,
Hardin County. KENTON, OHIO.

YOU CAN SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAV STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.
Mention American Florist.



Kills Mildew
and
Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

U. S. AND FOREIGN Trade Marks, Designs,
Opinions, Searches, &c.,
promptly attended to.
Send sketch or model for
free examination as to
patentability. All work
strictly confidential.

GEO. H. CHANDLEE,
Atlantic Building, WASHINGTON, D. C.
Mention American Florist.

The Floral "Emblem."

In Gotham the "floral emblem" holds full sway in the matter of appropriate tributes to death.

In Gotham, if you are an athlete, your friends will probably remember you with a pair of "floral boxing gloves" at your demise.

In Gotham, if you die at half past eight your friends will probably remember you with a grand "floral hall clock," the hands stopped at half past eight.

In Gotham, if you die a letter carrier, your friends will probably remember you with a "floral lamp-post and mail box," with a letter to yourself on top of the box, addressed with your name and the legend "At Rest in Heaven."

In Gotham, if you die a railroad man, your friends will probably remember you with a "floral train of ears," engine and all.

In Gotham, if you are connected with the Brooklyn Bridge, and should chance to die, your friends will probably remember you with a "floral Brooklyn Bridge," maybe nine feet long.

In Gotham, if you are to die a dude or a chappie, your friends will probably remember you with a "floral swiggerette case" bearing the words on the cover—

"CHOLLY GONE UP HIGHER."

—New York Herald, Dec. 4.

It Was a Fern.

"Mr. A, I want to get a nephrolepis to match one I already have."

"I haven't got any, marm."

"Why, yes, there are some on that bench there."

"Who gave you that name for it, marm?"

"Mr. B, where I bought the other one."

"And what d'ye say he called it, marm?"

"A nephrolepis."

"Well, he's a liar-r-r. It's a fer-r-r-n."

THE BEST POTS.

THE CHEAPEST.

THE LOWEST FREIGHT RATES.

THE BEST OF PACKING.

THE LARGEST POTTERY IN THE STATE FOR MAKING STANDARD FLOWER POTS.

PRICE LIST OF POTS.

	Per 1000		Per 1000
2 inch.....	3.25	6 inch.....	2.20
2 1/2 ".....	3.50	7 ".....	2.50
3 ".....	4.00	8 ".....	3.00
3 1/2 ".....	5.00	9 ".....	3.50
4 ".....	7.25	10 ".....	4.00
5 ".....	9.00	11 ".....	5.00
	13.40	12 ".....	20.00

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Pottery,

FORT EDWARD, N. Y.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL WIND ENGINE
GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of ladders, no tilting or trail-pinted towers and practically no attention, yet is more durable than other Wind Motors that require all this, and more unique in design. The GEM TOWER combines beauty, strength, durability, simplicity in the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the Halfday Standard Pumping and Geared Wind Mills, the Standard Vanhook and U. S. Solid Wheel Wind Mills, Pump, Tanks, Horse Hay Tools, &c. No other company offers equal inducements. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.
RATAVIA, ILL., U. S. A.



Always mention the AMERICAN FLORIST when writing to advertisers

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

713 & 715 Wharton St., Philadelphia, Pa.

Branch Warehouse:

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFEL & CO., SYRACUSE, N. Y.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER

STANDARD FLOWER POTS.

Write for an illustrated catalogue and price list of Pots, Lawn Vases, Hanging Baskets, Bird Pots, etc.

ADDRESS PITTSBURGH GLAY MFG CO., New Brighton, Pa.

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

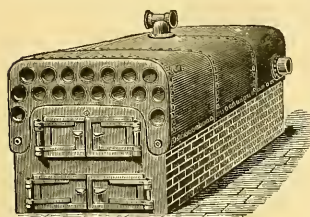
When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

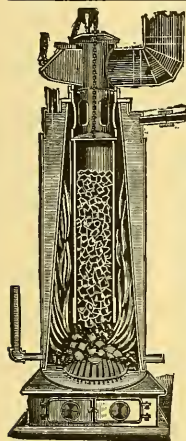
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

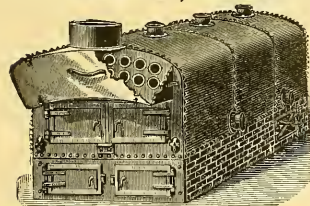
Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

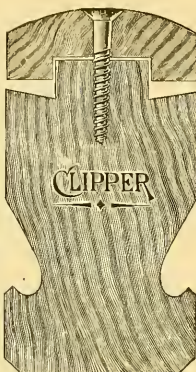
WORKS, 56th & WALLACE STREETS.

CHICAGO.

THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured **THE S. WILKS MFG CO.** CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED**Greenhouse x Boiler,**
41 to 55 Erie St., CHICAGO.Boilers made of the best of material, shell, flanges
sheets and heads of steel, water spaces all around
(front, sides and back). Write for information.
Mention American Florist.

When you write to any of the ad-
vertisers in this paper please say that
you saw the advertisement in the
American Florist.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.This cut represents our improved Clipper Bar for Butted
Glass roof—putty to be used under glass only.

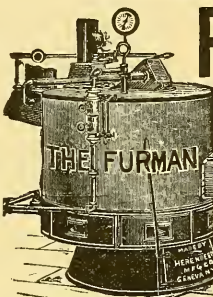
GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOGKLAND LUMBER CO.

Lockland, O.

**FURMAN BOILERS****Economical — Substantial — Safe!**
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.**Modern Hot-Water Heating**

These Boilers have a high reputation for Staunchness, Durability
and Safety, and are **GREAT COAL SAVERS**. Minimum Friction and
Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION**.
Send for new 160-page book giving full particulars and a great
deal of valuable information on modern Heating and Ventilation,
with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER **HOT-AIR**
OR **ERICSSON PUMPING ENGINE**

Catalogue with full particulars, sent on application.

DE LAMATER IRON WORKS, 21 CORLAND ST., NEW YORK, N. Y.
Mention American Florist.



ERICSSON

D. H. ROBERTS,

159 & 161 S. Fifth Ave., NEW YORK,

NATURAL GAS MADE GLASS

for ROSE HOUSES, CONSERVATORIES, Etc., Etc.
Our Glass received the Highest Award at the Boston Convention of the S. A. F.

FIRST-CLASS CERTIFICATE OF MERIT.**PERFECT
DRAINAGE****BENCH TILE**Used by all the leading
Growers and Horticultu-
rists.

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

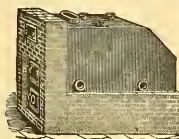
**GREENHOUSE HEATING
AND VENTILATING.**

Superior Hot Water Boilers.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N. Y.

Send for Catalogue.

**GREEN-HOUSE
HEATING.****Meyers & Co.**1173 S. Ninth St.,
PHILADELPHIA.Send for catalogue
and price list.

Mention American Florist.

Index to Advertisers.

Abel C C & Co	518	522	McFarland J H Co	524
Adv Rates, etc.	516		McGowan John	519
Andorra Nurseries	521		Mann J & Co	524
Bail Lennel	521		Marschout & Co	524
Bailey F A	521		Meyer John & Co	524
Bay State Hdw Co	521		Michel Plant & Bulb Co	521
Bayersdorfer H & Co	524		Milling Bros	517
Baylis Henry W	517		Modatt G J	515
Berger H H & Co	518		Neuminger Joe C	525
Bonsall Jos E & Son	517		Moon Samuel C	522
Brown & Canfield	521		Moore Frank L	515
Burns & Raynor	521		Myers & Co	515
Burrow J G	521		Nanz & Neuner	515
Burton John	515		National Hot Water Heater Co	524
Carmen R W	524		National Plant Co	521
Carmody J D	525		Nice Cere Floral Co	521
Chandler Geo F	519		Olson M	517
Chitty H E	519		Ouwkerk P	522
Corbrey T J & Co	517		Peck & Sutherland	521
Cottage Gardens The	527		Pelree & Coleman Co	525
Devine's Bolter Wks	527		Pennock C J	519
De Lamar Iron Wks	527		Pennock Sam T	519
Dillon J	524		Piereson A N	519
Dreer H A	527		Piereson F R Co	518
Eckhardt Theo	518		Pitche & Maude	519
Elliott W H	516		Pittsburg Clay Mfg Co	520
Elliott Wm & Sons	524		Randall A L	517
East H G & Co	518		Rauo C	518
Felhelm Lyman	515		Renard Joseph	517
Feld & B	519		Roberts D H H	517
Gardner J C	524		Roehrs Theo	517
Gardner J Co	521		Rogers Nurseries	519
Gibson John J	521		Rolker A & Sons	518
Gibson J C	521		Rupp John F	518
Gonzalez & Co	522		Rural Plnt Co	521
Hall Assn	522		Russell Governor	519
Hammond Benj	525		Russell's J	524
Hart James	517		Sander & Co	521
Hart Michael A	525		Schneid D C & Co	520
Hartford H E	524		Schulz Jacob	515
Hilli Jos	525		Schultz John A	527
Hirsdenden Mfg Co	527		Selbre P & Sons	522
Herr Albert M	519		Seridan W F	521
Hess A H & Co	516		Siebrecht & Wadley	521
Hillner Bros	523		Sipke Doppel & Co	527
Hill E G & Co	522		Sixations wants	527
Hippard E	525		Smith C A Floral Co	516
Hitchins & Co	525		Smith Louis	516
Hooker H M Co	525		Smith W E E	514
Horn Edw C	521		Spooner Wm H	515
Hulsebosch Bros	513		Starr Chas T	515
Hunt E H	515		Steffens	525
Hunt M A	515		Stott Garden Imp Co	524
Hunter & Purdy	517		Syer J J	519
Irvine John Co	521		Sunderbruch H L	516
Jeffords J E & Co	525		Swayne Edw	519
Jennings E B	519		Swayne Wm	519
Jessen C H	525		Tricker Wm	522
Kennelott Bros	517		T & Wind Engine & Pump Co	520
Knoop Oskar & Co	518		Vaughan J C	521
Korman E	521		Waterbury Rubber Co	525
Kroeschell Bros	527		Weathered Thos W	528
Kuehn C A	516		Weeber & Dot	518
La Roche & Stahl	517		Weich Bros	518
Little M B	521		Wells & Cortant Co	524
Lockland Lumber Co	527		Whillien Pot Co	520
Lombard R T	519		Wight W F	527
Long Dan I B	516		Wilks & Mfg Co	527
McBride Alex	520		Winter N D	515
McCarthy N F & Co	517		Wisconsin Flower Ex	516
McFarland J H	518		Wood Bros	519
			Zocher & Co	521

TO COMPLETE THE SAME. — IRON BENCH FRAMES FOR SLATE OR WOOD WORK.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

TO CORRESPONDENTS—The correct name of a certain yellow chrysanthemum is *H. E. Widener* Not "Weidner," "Widener," "Wiedner" or any other of the *Goodrich* spellings that appear in copy sent. And the name of a certain other variety is *Mrs. L. C. Madeira*, Not "Maderia."

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

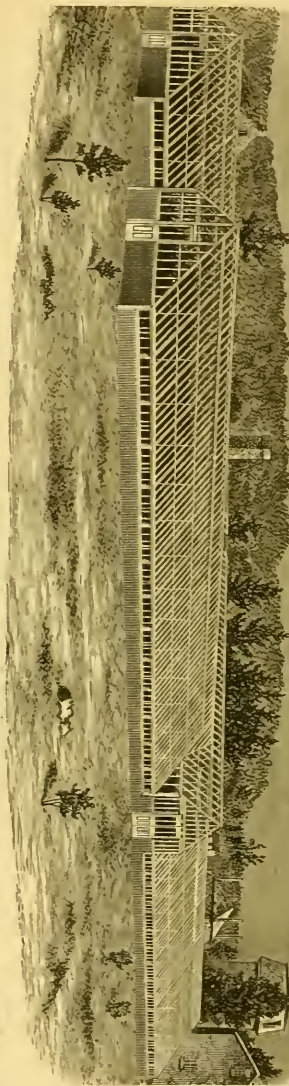
THE ANNUAL MEETING of the Northern Iowa Horticultural Society was held at Humboldt, December 20-22.

Most Desirable.

Greatest Economizer.

THOS. W. WEATHERED'S SONS
Hot-Water Boilers,
244 CANAL STREET,
NEW YORK.

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PORLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON, AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIP-VENT READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.



HITCHINGS & CO.
ESTABLISHED 1844.
**GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.**

The SPENCE HEATER
BY HOT WATER CIRCULATION:
NATIONAL HOT WATER HEATER CO.

Boston, 195 Port Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS TOWEN.
DO IT NOW.

JOHN G. ESLER, See'y F. H. A., Saddle River, N. J.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, JANUARY 5, 1893.

No. 240

THE AMERICAN FLORIST

Copyright, 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY
THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. B. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terra Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August 1-5. The new officers to be installed January 1, 1893 are: WM. R. SMITH, Washington, president; Prof. Wm. Trelease, St. Louis, vice-president; secretary and treasurer the same as for 1892.

CONTENTS.

Our telephone	520
Chrysanthemums—Notes on varieties	530
Lapagarias (with illus.)	530
The Cape Jessamine	531
Retailers' requisites	532
Carnations—Seasonable hints	532
Carnation "Pearl"	532
Carnation Emily Pierson	532
Tying carnations (with illus.)	533
American Carnation Society	533
A mushroom cave (with illus.)	534
Two holiday plants	534
Primulas at the World's Fair (with illus.)	534
Philadelphia	535
New York	536
Chicago	536
Boston	536
Buffalo	536
Some late chrysanthemums (illus.)	537
Baltimore	537
Toronto	538
Worcester, Mass.	538
Salt Lake City	538
News notes	538
Obituary	538
Keeping gladiolus bulbs	539
Another special number	540
Our trade directory	540
Untraded colors	540
The seed trade	542
Packing hot water pipes	544
Propagating antiantheras	544
The "New Siberian Ivy"	546
Damages awarded	546
Some recent legal decisions	548
Locomotive boiler for heating	550

THE SCARCITY of Lycopodium or bonquet green the past holiday season is likely to continue. Well informed buyers report that sections which have formerly supplied more of this stock than could be marketed, have now been stripped bare—the plant seldom grows again when pulled up. Holly sales are certainly steadily on the increase everywhere.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Our Telephone.

"Hello, central, wish you a Happy New Year. Can you put us in communication with Robt. Craig, of Philadelphia?"

"Thanks, certainly, wish you the same. There's Craig, go ahead."

"Hello Mr. Craig, cannot you tell us something interesting about the new roses? We understand you are growing them to some extent."

"Why, certainly. You mean Kaiserin and Testout, I suppose. Well, Hoste with all its good qualities is in danger of being superseded by Kaiserin. It is a stronger grower, bigger flower, more fragrance. And you can cut it with such remarkable stems."

"What effect do you think it will have upon Bride?"

"Bride will still remain in a class by itself. The Kaiserin will prove to be more of a competitor for Hoste than for Bride."

"And Testout?"

"I want to tell you that's a nice thing. It has many of the characteristics of La France. Very similar in growth. The flowers that form on the light shoots of Testout are very much inferior to those that come on the strong stems. You see the same thing in La France, and by the way, there is less of that in Kaiserin than in any other rose I know of. Then they come all good flowers. The color of Testout is its great point. In that respect it is far ahead of La France. It is entirely free from that lilac shade that is such a disadvantage to La France. It will keep in the cellar for three or four days, and as the color fades it keeps a pleasing shade."

"Do not the petals 'cup over' badly on Testout?"

"When that is the case I attribute it to a lack of vigor. They don't do so in plants that are in full health and growing vigorously."

"What can you say about Mme. Pierre Guillot?"

"Well, most people find that variety to do well in the warm days in fall and spring. But in the dull days in winter there is a complaint that it does not open. Still some growers claim to have overcome this difficulty by keeping the temperature not less than 65° at night, and may be they will yet find out how to grow that rose successfully in winter."

"I might just say here that Meteor is now our best winter rose. But it was in the country six years before it was found out how to grow it. A temperature of 65° is the secret of growing Meteor. Meteor is not likely to be disturbed until a rose with equal color, but also fragrant, comes out."

"Have you seen the White Perle?"

"Yes, and I like it. I think there is room for it. Hoste blisters in summer and so does Bride, while Perle is known to do well all summer under glass. This white sport has all the characteristics of the

original in this respect and is bound to make a place for itself as a useful white summer rose."

"Have you anything you can tell us about carnations?"

"Why, yes, I find that carnations will do best in old soil that has been used for roses two years before, and in which bone dust has been used, with a liberal supply of manure. It makes the finest soil we find for carnations. Most plants do best in rotted sod, but that does not apply to carnations. Bone in the soil gives carnations backbone, and after two years it is in a shape that the carnation can assimilate it easily. Lizzie McGowan is the best carnation we ever struck. A great producer, and the best thing for the money we ever got hold of. We hear good accounts from everywhere. It is the best keeper when cut that I know of. It will keep two weeks on the plant, too, but it don't get a chance to stay on the plant here though. Robt. Craig is the best scarlet for pots. It holds its foliage good."

"Don't you like Lamborn?"

"The trouble with Lamborn is that it will not keep when cut. It goes to sleep too easily, some times on the plant, even. We've done with it. We'll tiao McGowan until we've found a better one. In pink shades Grace Darling is hard to beat; and Edna Craig we think a great deal of. It has a splendid stem, and never bursts. Like most new things it was propagated to death at first, but its grand now."

"Have you anything new in the line of decorative plants?"

"Alpinia vittata var. is a plant destined to become a popular thing for centers of vases. It is similar to vittata only is nicely variegated. It is tough, durable and quick of growth."

"Oh, we have found out how to grow small Cocos Weddeliana successfully. The great trouble in growing this plant has always been the long tap root which it makes, which you can't bend and if you break it you spoil the plant. We sow the seed in 6-inch pots and put four inches of coarse ashes in the bottom, with two inches of soil on top composed of one-half peat and one-half loam, which encourages the fibrous roots to break into the soil while the long tap root runs down into the ashes and makes no fibres and can be broken off without injury to the plant. This enables us to get the plant into a small pot, and with good fibrous roots."

"Much obliged, Mr. Craig. Good bye."

"Hello, Central, we will trouble you to connect us now with Ernst Asmus at West Hoboken."

"All right, here he is."

"Hello, Mr. Asmus, can you spare a few moments to talk with us?"

"Yes, if you will hurry up. Mind, only a few moments now."

"Well, we want a little information from you regarding Mme. Caroline Testout. Mr. Craig says that where this rose opens

badly, petals cupped over, as they call it, the trouble is owing to lack of vitality in the plant, and that the strong shoots give the best blooms. Is that your experience?"

"No sir, I find it just the opposite. They cup over on the big stems with me. That's just where I get my deformed buds, on the too strong wood. The best flowers come every time on the small wood. To tell the truth, this rose has turned out altogether different this year from what it was last year with me. Last year it was perfect. This year it don't come so. It would keep a week with me last year after cutting, now it goes in a couple of days."

"Have you any explanation of the trouble?"

"Yes, that is, I will not say for certain yet. The soil in which I have them planted is entirely different. I used for them this year mostly swamp muck, and I am inclined to believe that is the trouble. I have now taken it all out and put other soil in but cannot tell about the results yet. I find the stem weak this year too. Last year it had a good, stiff stem. But I am not discouraged about it, and I am going to try it again largely next year. It don't do to discard a rose on a year's trial. Look at Cusin. At first they wouldn't buy it, we couldn't grow it decent, now it is one of the best selling roses we have in New York. As to Testout, I don't want to make any claims for it, but what I can back up, and I don't care if the growers don't go into it next year. I am going to stick to it. I have not forgotten that I threw Watteville away the first two years that I grew it."

"How about Kaiserin? Does it show a larger proportion of perfect blooms on the small wood than other white roses do?"

"I don't see that it does. It is just the same as any other rose, small flowers on the small wood, large flowers on the large wood."



Notes on Varieties.

I note in your issue of December 15 that Messrs. Ferris and Rawson take exception to remarks made upon the varieties of chrysanthemums in your number of November 17. While the gentlemen who prepared those lists were perhaps, in some cases, a little too severe and did some pretty hard pruning, yet I think no one supposed that when a grower possessed a variety which pleased him he would, on account of their adverse opinion, immediately discard it, and besides, all the authorities quoted in that list are commercial florists, although they are also exhibitors to more or less extent, and are, perhaps, too apt in passing judgment upon a flower to look a little too much at its commercial value.

Mr. Ferris begins his criticism with *Marguerite de York*, an old sulphur yellow anemone, not nearly as good a flower as *Thorpe Jr.*, although a little softer in color, and the public day take

very little interest in that class of blooms, no matter how well grown either at exhibition or in the stores.

To say which is the better, Mr. H. Cancell or Kioto, is merely a matter of growth and opinion. They both have the same great fault, namely, a very weak stem, but the former lacks the beautiful waxy lustre which Kioto possesses.

J. Collins is almost entirely out of cultivation and is rarely found except in old collections and there have been a number of bronzes disseminated during the last two or three years that far excel it.

Chrysanthemum growers must not get M. Viviani-Morel and Viviani-Morel mixed up in their minds. The former was raised and disseminated by Delaux in 1886, and was then described thus: "Dull white, lightened flesh, center yellow." It was shown in England the following year by both Messrs. Laing and Veitch and awarded a first class certificate of merit by the National Chrysanthemum Society of England, and is classed and described by that society (the best authority in the world) as follows: "Reflexed class. White, lightened flesh color, medium to large, cup shaped flower." It is little grown and I have never seen it staged at any show, but it is not like John Firth, for the latter is quite pink when well grown, each petal being laced with lavender pink. Viviani-Morel, the variety seen at all the exhibitions last fall, is also of French origin and was raised and disseminated by L. Lacharme in 1890. Of this variety Mr. C. E. Shea, an English authority, writes: "This was undoubtedly by far the finest of the new varieties exhibited last season (1891) and is absolutely indispensable to the exhibitor. The habit of the plant is fairly dwarf and the flowers although very large are most refined in character. Blooms have been produced 9 inches in diameter by 6 inches in depth. The florets recurve and droop after the manner of *Belle Paule* and *Hamlet*, but with more symmetrical regularity. Color on a correctly timed bud is mauve pink, but sometimes striped or patchy or even white on a bud taken too early. This variety will certainly supersede *Etoile de Lyon* for the '6 of one variety' class and will probably provide the 'best bloom' in many a competition." The National Chrysanthemum Society of England describes it as in your list: "Rose, striped white," and it frequently blooms with fine white lines running through the petals, causing the effect which Mr. Ferris notes when he says, "shaded to cream white."

Volunteer, Jap., was probably discarded by most growers the year after it was introduced by Messrs. Henderson & Co. It is a pale flesh pink flower, very soft, with very little substance and with such a weak stem that you have to tie every flower up to see its face. Mr. Ferris wants to know why there are two of this name (*Volunteer*). In this case one was brought out in England and the other on this side of the water. If Mr. Ferris will kindly tell the florists of this country a way in which the duplication of names can be prevented he will be doing them a great favor.

The American Chrysanthemum Society is, through its energetic and untiring secretary, Mr. Edwin Lonsdale, doing what it can in this line, and has accomplished much, but still duplication goes on. For example, *Autumn Queen* was brought out by Messrs. Peter Henderson & Co. in 1888, and last year Owen, I think, disseminated one in England under the same name; and now Mr. Fred Dörner has one

which he exhibited at Indianapolis this year named *Autumn Queen*.

Veddo is still a good pot plant and good color, but a very small flower, of poor substance and a very weak stem.

King's Daughter is quite dissimilar to Mrs. Langtry in many ways, the petals are narrower and the bloom carries better, does not break off close to the calyx as does the latter, but does not make as good an exhibition flower.

Mr. Rawson speaks of the general excellence of the variety named G. P. Rawson. I have yet to see a fine bloom of it. All that I have seen are of a washed out yellow shade, not a clear buff, in fact no self color at all. It is neither a yellow or a bronze, and I much doubt if any exhibitor at present would give it a place in a stand of 50, although it has many good qualities, as good substance, habit, foliage, constitution and of exceptionally good depth.

ELIJAH A. WOOD.
West Newton, Mass.

Lapagenias.

These are the most effective flowers known for hanging decorations. Their culture is easy and they can be grown in any cool greenhouse provided they have the right sort of material at their roots. For instance, the florist can grow them in the carnation, violet, camellia, azalea or cool fern house; they can be grown in a private establishment over miscellaneous greenhouse plants, such subjects as cinerarias, calceolarias, acacias, heaths, etc., or in the odontoglossum, coolfern or palm house. They would also thrive in a division set apart for growing lettuce, parsley, water cress and the like.

The material best suited for their culture is fern root fibre chopped up, the fine dress taken out and thrown away, mixing with the fibre a liberal dash of river sand and broken charcoal.

I could never find any benefit from what all the books give us, about the necessity of having one third loam. I have found it to be only a detriment, especially in these United States where we have to deluge so much water upon the plant and root during the hot summer months. I have found the best drainage when they are planted out, to be broken bricks. The roots will grasp and embrace tenaciously a half or quarter of a brick. It is a glorious sight to see these roots when in perfect health, holding on in every conceivable manner, trying to drink the water back again out of those bricks.

They are fond of an abundance of water at all seasons of the year and ought to get severe syringing on the young laterals in spring to keep off the green fly.

All young laterals and shoots ought to be attached to new green cotton strings as they grow, and they can be grown either east, west, north or south, anywhere to the light, but it will save tall talk next winter at cleaning time if they are not allowed to cross each other, especially where there is a stock of young plants layered and growing on for sale.

The quickest and best of all methods of propagation is by layers, but never allow the white and the red varieties to be in the same bed, or there is apt to be a mixture in the subterraneous pushing up of crowns from roots.

Supposing you have a stock plant of white or red (the one grows equally as well as the other), if it has got twenty or twenty-five shoots with laterals thereon, plant it on the middle of a side bench of a 50-foot house, take the shoots both ways pegging them down firmly with strong zinc wire pegs. Wooden pegs are apt

to rot and get slack before the plants are rooted. After the main shoots are pegged firmly to the fern root fibre take the laterals from the same and tie them to stakes perpendicular and firm, as it will take them from twelve to fifteen months to root and make established plants. But then you will have plants growing all over the side of that 50-foot house.

Be sure the main shoots are covered all over two and a half inches deep with the same material recommended for potting or planting in, and if there is plenty of drainage don't neglect to keep the bed always damp.

In cutting the flowers for market, cut them in sprays three to three and a half feet long; it enhances the value and appearance of the flowers, besides it is about the only way in which the plant gets any pruning.

Slugs are a vexations trouble in the spring to young shoots and must be searched after every night and trapped with wet bran, cabbage or lettuce leaves. Ants have no business to be there as they will not stay in the compost with the moisture which the *Lapageria* requires. If wood lice be around place a few toads on the beds; they will go down after them and will not harm anything unless there be a few seed pans around.

There are at least four distinct varieties of *Lapagerias*; *L. alba*, as pure white as any flower can be; *L. rosea*, a rose colored variety with light marbled markings; *L. rubra*, a soft ruby color; and the Nash court variety, twice the size of any of the former, and of the same color as *rubra*.

DAVID ALLAN.



LAPAGERIA ROSEA-NASH COURT VARIETY.



WREATH OF LAPAGERIA ROSEA.

The Cape Jessamine.

There is one plant now coming rapidly to the front which is rather neglected in the columns of the *FLORIST*. This is the Cape Jessamine (*Gardenia florida*). I question whether any other plant will better repay good treatment as will this one. It requires no special costly houses as do roses and carnations, and will stand crowding in with other plants and still do well. Ordinary good soil and watering is all it requires. Syringing over-

head when not in bloom is beneficial. Under good treatment this gardenia will give three to four successive crops of flowers annually, and with handsome foliage that greatly enhances the value of the flowers. If the plants are kept in pots, one repotting a year will be sufficient, unless kept very warm, when two repottings are needed.

The keeping and shipping qualities of the flowers are excellent. The long stemmed blooms make fine boutonnières and

the short stemmed ones are splendid for making up into baskets and other arrangements. One flower will fill a room with fragrance.

The plants grow readily from cuttings of the soft young wood and in twelve months will make nice 4 and 5-inch pot plants. I have had plants that bloomed in a 2½-inch pot.

On the whole I think this plant well worth a little more attention.

Anniston, Ala.

F. J. ULBRICHT.

Retailer's Requisites.

Just how large a stock of florists' requisites should be carried by a retailer with a general trade must be determined by each dealer individually. But a local retailer with a general trade, running all the way from bedding plants to bridal bouquets, while he needs a certain variety in this line, should not carry a stock so large that it becomes shop-worn and out of date before being disposed of. Wire in staple designs will bear keeping, but baskets and such wares go out of style, or become dusty and faded, where too large a stock is carried, and it is easier to renew when needed than to dispose of goods out of date. A man who understands his business can very soon decide what extent of basket goods is required by his particular trade, and there need be but few losses. Pottery, on the other hand, will keep, and every retailer needs a certain line of ornamental jardinières, only they should not make the mistake of carrying too expensive a stock of high-priced pottery. Prettily colored pots which can be sold from \$1 to \$2.50 help to sell a good many plants. The same may be said of fern dishes, either pottery or metal; in places where they are still uncommon the sight of them, tastefully filled, will help to start sales. A neat little office, where pot plants may be displayed, showing the effect they will give in a room, is really a necessity, even in a very modest business, though we more often see a rough shed, containing a miscellany of plant stakes, pots, flats, packing paper, and similar bric-a-brac, as an anteroom to the greenhouses.

Among things which must be always on hand in abundance are tinfoil, tissue paper, toothpicks, splints, and fine wire in good order. How often, we wonder, does the small retailer wrestle with snarled, tangled wire, so rusted he can hardly twist it around the stem; simply carelessness, of course—it wouldn't cost any more to keep the wire in good condition, and would save both time and temper. It should never be left lying around, but as soon as sufficient quantity is cut off in convenient lengths the remaining coil should be put away—covered—in a dry place. The tinfoil should be properly cared for too, kept folded flat, and no ornaments left lying about; a good deal is wasted in this way.

Wheat, in sheaves or flat bunches, while it may be regarded as a staple article, should not be carried in too heavy quantities, as its color becomes impaired by keeping, and it grows so very brittle; care must be taken, too, to keep it in a place free from the inroads of mice. For similar reasons immortelles must not be bought too largely. Some colors lose their freshness quite easily, and they should all be kept wrapped up and out of direct sunlight. Mice are very liable to make a nest in these flowers whenever the chance offers.

Lettering in designs is a thing we don't admire, and it is out of date with the more fashionable florists; still it is very largely called for. We certainly recommend the made immortelle letters for this work; apart from the saving of time they are well shaped and give a better appearance than lettering with single flowers, unless skillfully done. Another accessory, even in a small business, is an abundance of packing material, paper, wadding and neat boxes. Even in a small business the use of neat, new pasteboard boxes for cut flowers, bearing the florist's name on top, are infinitely preferable to the second-hand notion boxes so largely used. It is embarrassing to present a box

of roses to a lady and then behold staring at one from the end of the box the legend "½ doz. men's fine balbriggan shirts." Excellent boxes are those used by many city florists where space is limited. They are stamped out, flat, from one piece of pasteboard; when needed they are folded up along lines creased for the purpose, a little dovetail at the corner of each side piece slipped into corresponding slots in the end pieces and the box is made. The lid is made in the same way. The advantage of this box is that being kept flat, like so many sheets of thick paper, a large quantity can be kept in a limited space. For shipping designs, etc. by express light wooden boxes must of course be used; in most establishments there is some man handy with tools, who can make these boxes with smooth light lumber; they can then be made in the sizes needed, and should be lighter, as well as better looking, than a haphazard collection bought at the store. For shipping plants in the bedding season nothing else is really as good as cheap splint baskets with handles; they are light, neat and easily handled. It is worth while to have a good stock of these baskets in various sizes, so that people who come to the greenhouses to buy, expecting to carry their purchases with them, may have them packed in this way. It pays to please people, and little conveniences of this sort are, as a rule, very greatly appreciated.



Seasonable Hints.

The middle of winter is the most trying time for the florist whether he grows carnations or other flowers. The conditions to which the plants are subjected are more unnatural than at any other period of the year. Nearly all plants thrive better during long days and short nights than the contrary. December and January present just the opposite conditions. Given plenty of clear days the skillful cultivator can manage very well. But unfortunately it is more apt then to be cloudy and stormy than at any other season. A few days of bad weather will tell on the plants in spite of all the care we may take.

At such periods the red spider finds his great opportunity and mostly takes advantage of it. Sunshine is not his delight and often we have seen him entirely disappear during the longer and brighter days of spring. The spider will be found in all his glory where the dry heat of a pipe, flue or furnace swirls up along the edge of a bench. If it were possible to have these hot air currents always saturated with moisture, we are almost sure spider would not be seen. A preventive would be to avoid a violent heat at any one point, but this is seldom possible. Houses where the heat is well distributed through them, using a large radiating surface and low degree of heat in pipes or flue, we think will seldom be troubled with spider with ordinary care.

Of all plants the carnation detects a dry atmosphere and when situated in these drying currents will assuredly be attacked with this pest. It is plain such conditions are not conducive to the health of the plant; it becomes diseased and subject to

the attack of insects. Our belief is that the red spider will never trouble a healthy carnation plant. We have already referred to a remedy in a former paper and will only add in this place that flour of sulphur strewn over the flues or hot pipes, or evaporated over a coal oil stove, is a very good antidote, but must be used with care. Sulphur burnt in a house will destroy every living thing in it; if simply vaporized it will not hurt the most delicate plant.

During these dark days a little over watering, or wetting of the foliage when it has not a chance to dry out, or too much drip from the roof will cause the leaves to decay and become mouldy around the base of the stems. Of course every one will endeavor to guard against this, but it is a condition that will almost inevitably overtake the plants in some situations. Such varieties as grow bushy and close to the ground are much worse in this respect, and old plants are more liable than those of younger growth. Wire netting used in the manner we have already described will largely prevent the evil by permitting a free circulation of air between the rows. But whenever the plants are thus affected they should be cleaned off thoroughly and more care exercised in watering. Indeed more or less dead leaves and branches accumulate about the plants during winter. So the best plan is to go over the whole establishment as time will permit, removing all such growth which has become useless to the plant. The litter should not be thrown on the walks but carefully gathered in boxes and burnt or taken to the compost heap.

Dead leaves about the base of the carnation plant are not necessarily the sign of disease. As the plant becomes older the lower leaves become useless and die, having fulfilled their mission. If not removed they merely form a lodgement for mould and other fungoid growths, perhaps detrimental. They also retain moisture, become slimy and may be the cause of the death of the plant. W. R. SHELMIER.

Avondale, Pa.

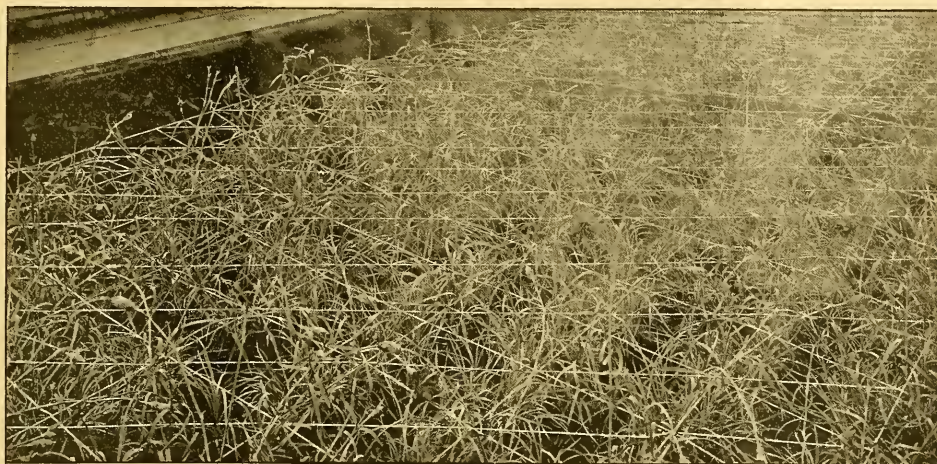
Carnation "Pearl."

Touching the remarks made by Mr. Van Ryeper in last week's issue of THE AMERICAN FLORIST, regarding the color of Pearl, Mr. C. J. Pennock writes us as follows:

"The flowers of Pearl vary considerably from pure white, to white *strongly diffused* with deep pink. This color is not put on in lines or stripes, but seems to be run into the white. Mine rarely come deep colored and many of them are almost pure white. I bought the stock of Pearl from Chambers Bros. and Ed. Swayne, the latter having bought of Chambers Bros. I saw Ed. Swayne's first and his had very little color. I found Chambers' stock was stronger but averaged much more color. They were in growth exactly alike, and there is no doubt that it is of a varietal character. Mr. Lonsdale thinks a high temperature makes less color. I have found the color to be no objection in the sale of the flower. Of course it will not generally go as a pure white."

Carnation Emily Pierson.

We are in receipt of a communication from a grower, deprecating the introduction of new varieties of carnations which are no improvement upon existing varieties and which in many cases, he claims,



TYING CARNATIONS.

cannot be distinguished from sorts already long in cultivation. He mentions Emily Pierson as a case in point, claiming that it cannot be distinguished from President Garfield in foliage or flower. Perhaps some of our readers can give some information regarding the variety in question and show wherein it differs from Garfield. Appearances are not everything and it is necessary to grow two varieties together under similar conditions before it is possible to say that they are identical.

Tying Carnations.

Almost every grower has his own way of tying carnations, and while many still cling to cane stakes, there are some later and more convenient modes. Our illustration shows Mr. Dorner's way, which is at once neat, simple and convenient. His plants are put in the rows alternately, so that they run in diagonal lines across the bed. At the ends of the beds and at intervals of about 12 feet along them a light wooden bar, supported at either side by an upright, crosses the bed about 10 inches from the surface. This supports a galvanized wire along each row of plants, the wire being fastened at the ends, while the cross-bars along the bed receive each wire in a little nick which keeps it from slipping. The tying material is cotton string, which is worked across the bed from one side to the other diagonally, making it appear in a series of triangles. The tying is very quickly done by two men, one at either side, passing the string across; it is given a loop over at each wire. The great convenience of this system is that while supporting the plant it is not crowded up together, and the string is not in the way when picking flowers. For very tall growers a second wire may be added above the first.

American Carnation Society.

The American Carnation Society was organized at Philadelphia, October 15, 1891, with an initial membership of 50.

The aims of the society are as follows: To increase the general interest in the

cultivation and use of the carnation; to improve the standard of excellence in the flower; to improve the methods of cultivation and methods of placing it upon the market; to increase its use as a decorative flower; to improve the methods of growing plants and rooted cuttings and marketing the same; to infuse into the grower a more thorough understanding of the general rules of successful business management; to properly supervise nomenclature; to stimulate the growing and introduction of improved seedlings and crosses, by a system of exhibitions and awarding valuable prizes.

At the Philadelphia meeting arrangements were made for a general meeting at New York City the following month.

THE NEW YORK MEETING.

AT THE ST. JAMES HOTEL, NEW YORK.

November 4, 1891.

OFFICERS.

President, Edwin Lonsdale, Chestnut Hill, Pa.; Vice-President, William Swayne, Kennett Square, Pa.; Secretary, C. J. Pennock, Kennett Square, Pa.; Treasurer, C. W. Ward, East Moriches, N. Y.

EXECUTIVE COMMITTEE.

The officers and Robt. Craig, Philadelphia, Pa.; R. T. Lombard, Wayland, Mass.; J. G. Hancock, Grand Haven, Mich.

ESSAYS.

Soils—Albert M. Herr, Lancaster, Pa.
Production of Improved Seedlings—Edward Swayne, Kennett Square, Pa.
Greenhouse Construction for Carnation Culture—L. Wight, Framingham, Mass.
Cost of Producing Carnation Cuttings—J. G. Hancock, Grand Haven, Mich.
Business Methods—C. W. Ward, East Moriches, N. Y.

Dissemination of New Varieties—R. T. Lombard, Wayland, Mass.

A committee was appointed to keep an official record of new varieties of carnations introduced, and to supervise carnation nomenclature generally. It was decided to hold the first annual meeting at Buffalo, N. Y., the third Tuesday in February, 1892. Dues were fixed at \$2 a year, and Constitution and By-Laws adopted.

THE BUFFALO MEETING.

AT THE TIFFT HOUSE, BUFFALO, N. Y.

February 16, 1892.

ESSAYS.

Do Varieties Run Out—Warren R. Shelmire, Avondale Pa.
Carnations in the Retail Trade—Wm. Scott, Buffalo, N. Y.
Carnation Rust—Prof. J. C. Arthur, Purdue University, Lafayette, Ind.
Carnations in Southern California—C. J. Haettel, Redondo Beach, Cal.
John Thorpe's Ideal Carnation—Prof. L. H. Bailey, Cornell University, Ithaca, N. Y.

Carnations as Grown in Europe—E. G. Hill, Richmond, Ind.

A magnificent display of cut flowers was made. The committee on nomenclature reported a number of varieties registered and solicited a full registration with pedigrees of seedlings as far as possible.

The officers were all re-elected for one year.

District vice-presidents were selected as follows: New England, Benj. Grey, Malden, Mass.; Middle States, Wm. Scott, Buffalo, N. Y.; Southern States, Benj. Durfee, Washington, D. C.; Western States, Fred Dorner, Lafayette, Ind.; Northwestern States, R. J. Mendenhall, Minneapolis, Minn.; Pacific States, C. J. Haettel, Redondo Beach, Cal.; Canada, Walter Muston, Box 32, Deer Park, Ont.

At an adjourned business meeting at Washington, D. C. August 16, 1892, it was decided to hold the next annual meeting at Pittsburg, Pa., February 21, 1893.

PROGRAMME FOR PITTSBURG MEETING.

February 21, 1893.

ESSAYS.

A Retailer's Views—Thos. Cartledge, Philadelphia, Pa.
Some Carnation Enemies and Supposed Remedies—C. W. Ward, East Moriches, N. Y.
Sports and Variations—Prof. J. F. Cowell, Buffalo, N. Y.
Carnation Diseases—Prof. Atkinson, Cornell University, Ithaca, N. Y.



A MUSHROOM CAVE

Growing New Varieties of Carnations—
Sewall Fisher, Framingham, Mass.

Types and Tendencies of Carnations—
Prof. L. H. Bailey, Cornell University,
Ithaca, N. Y.

Carnation Diseases Other than Rust—
Prof. Byron D. Halsted, Rutgers Col-
lege, New Brunswick, N. J.

A Mushroom Cave.

One of the interesting things now to be seen in Mr. Thorpe's department at the World's Fair is the mushroom cave under the great dome. It is situated inside the artificial mound, at one end of the space that will form the electric grotto. The bed was spawned Oct. 4, and has now been bearing prodigiously for several weeks. The crop is very abundant, and of the finest quality. No extraordinary efforts have been made with the crop; it has been grown very simply in every way. Our picture was from a photograph taken by flash light.

Two Holiday Plants.

Retail dealers recognize the fact that during the midwinter holidays any plant possessing showy red berries finds satisfactory sale, if well grown and shapely. Add to these qualities sufficient vigor to stand moving about in varying temperatures, and we have an ideal plant for that season. An old fashioned plant which fulfills these requirements and which we are likely to see revived for

trade use is *Solanum Pseudo-capsicum*, the Jerusalem Cherry. It makes a neatly shaped plant, and is really handsome when covered with its bright scarlet fruit. It is raised from seed, succeeding in any good loam, in ordinary greenhouse temperature. Well berried specimens in 4 or 6-inch pots are best for retailing, but larger specimens will be found useful in decorating halls or other draughty places where plant groups are required.

A second ornamental fruiting plant—*Ardisia crenulata*—has been so often mentioned in the *FLORIST* that extended notice is unnecessary. But the fact remains that it is one of the best plants we have for the uses named above, and retailers in eastern cities fully realize this fact.

To obtain good plants, the berries, fully ripe, should be sown in early spring, as soon as they are gathered. The soil should be loam, peat and sand, and the pot should be plunged to obtain bottom heat. The seeds will germinate after a few weeks, and when the seedlings are about two inches high they should be potted in 3-inch pots, the same mixture of soil being used, but with the addition of some well-rotted manure. They may be kept in a warm place until they have rooted well, when they may be removed into a cool house. When the roots are well grown they may be moved into 6-inch pots. Syringing will keep the leaves in condition. In a cool place the bright red berries remain in condition from one season to the next.

Primulas at the World's Fair.

Without doubt the most remarkable collection of primulas ever on view at one time is that now to be seen at the World's Fair. It comprises all the leading sorts now in cultivation, and is a valuable object lesson to the retailer who wants salable flowering plants for the holiday season. Our illustration gives a view in one of the greenhouses; the plants immediately in the foreground are some very fine forms with lavender-blue flowers, the next batch is cerise, while some large whites are in the left background. There are some most remarkable fern-leaved varieties in this collection; all the leading types will, however, be illustrated in the *FLORIST* at an early date.

All these plants have been grown under precisely the same circumstances in every way. The first sowing was begun April 21, lasting for four or five days; a second sowing, merely provisional, in case any of the first failed, was made June 8. The seed was sown in rows one inch apart, in flats 20x24 inches. From these boxes the young plants were pricked off into boxes, being put $1\frac{1}{2}$ inches apart. The first sowing was pricked off June 10, the second proportionately later. The first sowing stood the hot weather better than the later seedlings, seeming to require less care. August 18 the earlier young plants were potted into 3-inch pots, and September 25 they received a final shift into their blooming pots, which are 5-inch.

The soil used throughout is good black prairie soil, with $\frac{1}{3}$ very well-rotted cow



PRIMULAS AT THE WORLD'S FAIR.

manure, and a sprinkling of the finest bone flour—about a 6-inch pot full to four bushels of soil. The drainage used was a wad of excelsior, as previously mentioned in the *FLORIST*. It has proved a perfect success; indeed, it is hardly likely that Mr. Thorpe would try an uncertain experiment where so much was at stake.

These plants have had three soakings of liquid manure during the last two months; two soakings of nitrate of soda, $\frac{1}{2}$ ounce of the nitrate to 3 gallons of water, and one soaking of sulphate of ammonia in the same proportion. The liquid manure was not extra strong, being simply the drainings from a manure pile, about the color of weak tea.

The plants are kept with a night temperature of 50° to 55° , and receive plenty of air during the day. Better to let them fall two or three degrees below 50° than to rise above 55° at night, for they do not like heat. Nor do they like strong sunlight; very bright days it is a benefit to give a little shade, say from 10 a. m. to 2 p. m., especially if the bright weather has been preceded by dull days. The strong light is apt to affect the flowers.

During the winter the plants should not receive water over the leaves, unless there is sufficient air or sun to dry them off before night. If water lies in the folds of the leaves over night the effect is bad. It is well, however, to keep the sand in the benches moist.

What may be called representative commercial plants in this lot had from 25 to

50 blooms on perhaps 4 stalks, coming into bloom consecutively, and thus extending the time of flowering. It is worth noting that this first sowing of April 21 was in fine order for Christmas, a point for those who want to catch holiday sales.

Philadelphia.

One might suppose from what could be learned about it in the last issue of the *FLORIST*, that we had no Christmas in this city. (By the way there is a news letter running around the country looking for Chicago.) Such was not the case, however. Krisckingle stopped on his way round, and his presence was very largely felt, as evidences of his visit were to be seen on every hand. All the boys did what they could to help him out, and the way the plants and boxes of cut flowers were sent out under his direction was most gratifying. Thos. Cartledge, of Pennock's, said it was the best Christmas, particularly for plants, he had ever experienced. All good flowering plants, particularly fine specimens of cyclamen, azaleas and primroses sold out clean, as well as a great many ornamental foliage plants, palms, araucarias, rubbers, etc., and better prices as a rule were obtained. The public seem to be getting educated up to a higher standard and are willing to pay a good price for well grown plants.

There was a great demand for Beauties, Belles and all large roses, many

more of which could have been sold if florists had been sure of getting them, but the supply was not near up to the demand and the quality only fair.

There are a few hybrids, mostly Laings. Messrs. Burton and Anderson both tried early houses, but did not meet with much success. They say there is nothing in trying to have them so early, for while one year they may be successful, the next is likely to prove a failure. Both have houses of Brunners and Laings coming on, from which they expect to cut in a couple of weeks. Jos. Heacock has also a house of hybrids which looks well and will be in about the 15th.

Carnations should surely be a paying crop this season. Since the 20th of December they have sold for \$3 a hundred, and extra fine flowers at from \$4 to \$5; and even at these prices there has been a scarcity of some colors. Baker, who handles a great many from the "Belt," is in high feather, and claims the price will stay where it is for some time. They are certainly doing them very well up in Chester County this winter; their Buttermere, Lamborns, Angelus and other fancy kinds are beauties, and are fast approaching the ideal. A new variety and one likely to make its mark, is grown by Griffin Bros., Frankford, Philadelphia. It cannot be described better than to say it is an improved Wilder, as it looks more like that famous variety than any other. It is a somewhat larger flower, a good grower, very free bloomer, and a great

keeper. It has all the qualities of a good commercial variety, and while the growers say that it may seem a little weak on the exhibition table, it will beat all other pink carnations out in the bank account.

With the exception of Beauties, the demand and supply of roses was about equal. Mermets, Brides, La France and others of their class brought from 18 to 25, the latter price being asked for La France, though why this distinction is made in favor of La France we cannot see, as Mermet is much the better seller in its present condition, it being now at its best.

Smaller roses brought 10 to 12, valley 6, hyacinths 2 to 5, narcissus 3 to 4, bouvardia and heliotrope 2 to 3, mignonette 3, violets 2½ to 3, adiantum 1½, smilax 18 to 20.

The demand was almost entirely for loose flowers, roses, carnations, etc., by the dozen, very few baskets being arranged.

There seems to be a growing demand for the table fernery, and more ferns were sold than for any previous year. The stock of ferns suitable for filling ferneries is very low about here, there being no really good plants to be had. There was a very large business done in Christmas greens; holly wreaths, loose holly, mistletoe, ground pine, and laurel wreathing all sold very well.

The only drawback was the weather which was very cold; there was from 15 to 20 degrees of frost continuously during the busy period, and as a matter of course a great amount of extra labor was required to see that everything was protected from the cold. Many packages of cut flowers coming even a short distance, arrived in a frozen condition. It seems singular that men will go to all the trouble necessary to bring flowers and plants to a marketable condition, and then give them over to the tender mercies of express companies in such extreme cold weather without any, or very little, extra covering. But they do, and as a result all their work goes for nothing, to say nothing of disappointment and loss to the dealer who is depending on the stock to fill his orders.

Business the past week has been fair. Prices have fallen somewhat, La France, Mermets, Brides, etc., now bring 15, Perles and Gontiers 8, Beauties 50, and other flowers about the same as for Christmas. Atkinson, of Edgewater, is in first with freesia, which sells for 3. Messrs. Craig, Harris and Evans have a few tulips for which they ask from 4 to 6, but they are hardly salable as yet, being very short in the stem.

The demand for flowers on New Year's day has fallen off to such an extent that it now makes very little difference to the trade. It used to be "duplicate our Christmas order for New Year's" but now stock enough for a good day's business is found sufficient. K.

New York.

Retail florists as a rule express satisfaction with the recent Christmas trade as far as the amount of work done is concerned, but are almost unanimous in the claim that profits were next to nothing, the wholesale prices on many varieties of flowers being about as high as it was possible to realize at retail. New Year's trade has not been up to expectations, in fact there was nothing about the wholesale establishments to indicate that there was anything going on different from an ordinary Saturday. Most

of the retail establishments kept open all night preparing goods for early morning delivery, but there was so much stock in the market that this extra work made little special impression.

As a rule cut flower boxes prevailed and few designs of any kind were to be seen. Thorley's trade seemed to run to basket work more than others, and some of the baskets seen there on New Year's morning were exceedingly handsome. Double yellow daffodils which have just come in were largely used in combination with other flowers in these baskets, and among the novelties were some with heath or lilac plants in the center. Scallen's window was a beautiful picture in soft green and gold, Cyripedium insigne, mignonette and adiantums with tasteful loopings of pale green ribbon being the material principally used.

There were a good many well grown hybrids in market, Magna Charta and Alexieff principally. Magna Charta is well enough when good Beauties can not be obtained, but when Beauties are to be had Magna is disposed of with difficulty. Beauties have sold fully as well as they did at Christmas.

There never before have been so many carnations in this market at this season. Whites of the common varieties and Grace Wilder suffer most from overstocking; Lizzie McGowan, however, holds its own and brings an unusually good price for a while.

Violets are more plenty and prices eased off considerably. Harrisii lilies are coming in too freely and there is prospect of an overstock. Lily of the valley was scarce early in the week, being retarded by the cold weather, but is now in full supply. The crop from new pips is not very salable, it being very pale and soft and deficient in foliage. Roman hyacinths are still in over-supply. Smilax and adiantums were also too plenty. The quantity of grand mignonette now coming in has furnished such a desirable green that smilax and adiantums suffer in consequence.

Prices in general held up well to Christmas figures throughout the week until Saturday, 31st, when quite a drop in figures on some things was apparent.

The revised proof of premium list for the spring show in Madison Square Garden is just out. It is very comprehensive and shows the results of much study and careful consideration on the part of the committee. One of the new rules requires all intending exhibitors to make a deposit at the time of entry, the amount to be returned to the exhibitor as soon as his exhibit is staged according to entry, and in failure to exhibit as agreed the amount is to be forfeited.

Chicago.

Since the holidays business seems much brisker; there is a decided increase in volume of trade, though, unfortunately, flowers are still scarce. There is a slight improvement in quality as far as color is concerned, but roses are still rather small. The quantity of good flowers is not enough to supply the demand. Among roses the best demand is for red ones. A few beautiful blooms of Mme. Caroline Testout come in from W. W. Coles; they are eagerly bought at \$2.50 a dozen. The coming popularity of this rose is beyond doubt. Meteors are very scarce; this rose increases in popularity, though at this season it is not at its best, coming very dark in midwinter. Among carnations Daybreak may be

quoted as the most popular fancy; it always brings a higher price than any other variety. Violets are more plentiful, and greatly improved in quality; they are now very good.

Callas are much scarcer than Harrisii, which is now coming in more plentifully. Romans continue to be very plentiful; there are more of these flowers in now than there are paper white narcissus, and the latter is in rather better demand, when good. Valley is better in quality, but there is no great quantity on the market yet.

Although the market was brisk, prices had a downward tendency for several days after New Year's, though the drop was hardly as great as immediately after Christmas. Indications seem to point to a better trade during January than December. In fact during the present week the supply has not been equal to the demand, but the fact that many of the flowers were such poor quality prevented the stiffening of prices which would otherwise have ensued. A continuation of bright clear cold weather would have an excellent effect on the trade. Some very large decorations have been made recently by some of the local florists, and the prospect of future work is good.

Boston.

There is little to say about the condition of the cut flower market here at present. New Years cuts no figure here and the general run of trade is in normal condition. All wholesalers and retailers profess to be well satisfied with the results of the Christmas rush. White carnations are better in quality than ever before seen here. This is true, in fact, of most kinds of stock. Lily of the valley has been in very short supply. Violets are improving greatly. The first freesia of the season is in. Quality good and it sells readily at \$2.50 to \$3 per 100. White stocks are also coming in. They sell for \$4 per 100. Orchids are scarce here. There are but few growers paying any attention to them. Speaking of orchids, it is generally admitted that David Allan's collection of dendrobiums is the finest and most complete in the world.

Buffalo.

The result of our Christmas trade all round must be called quite satisfactory. I have heard no complaints and everyone seems to have had as much as they could attend to. The increase in demand for cut flowers was very trifling, if any, and when Monday noon came it found us all with plenty of flowers to fill all the additional orders. Roses, violets and colored carnations were in greatest demand. Scarlet carnations were very scarce. There were a very few pickled flowers in the neighborhood of Buffalo, but a few boxes came in whose contents had a venerable appearance. I am inclined to think that the very high prices and poor quality of flowers at previous holiday seasons told some against the sale of flowers this Christmas, and many people denied themselves the luxury.

The trade in holly and greens was immense; almost double the quantity was handled this year. But as in other cities the business is cut up. Green was peddled on the streets, markets and everywhere. Still it's a good business and there is a much larger margin for the retailer than there is in pale Mermets at \$25 per 100. Very little call for mistletoe; outside of



SOME LATE CHRYSANTHEMUMS. [PHOTOGRAPHED THANKSGIVING WEEK.]

1. Stonewall Jackson (Crystal Wave). 2. W. H. Lincoln. 3. Secretary Farson. 4. Mrs. L. C. Madeira. 5. Mrs. Irving Clarke. 6. Mrs. R. Craig. 7. Mrs. M. J. Thomas. 8. Mr. H. Cannell. 9. Miss Minnie Wanamaker.

special orders for large pieces the general public knows or cares little about it.

Plants sold well and were bought largely for Christmas gifts, but it was a terrible time to deliver them; the mercury hovered round zero for a week; the morning of the 24th it was 5° below and sleighing grand. It was what Buffalo people call ideal holiday weather, but the ideal was a little severe for florists. Several of our leading hotels decorated elaborately, calling out long descriptions in the papers.

On the 30th the Buffalo Club, whose grand club house is on Delaware avenue, held their annual ball. The whole house was finely decorated. Mr. C. F. Christensen was the artist. The 28th was the 50th anniversary of the marriage of Mr. and Mrs. C. J. Hamlin. Mr. Hamlin is one of our best known and wealthiest citizens, and the golden wedding was a gorgeous affair; no such display of flowers has been seen in Buffalo in many years, if ever. The reception room was trimmed in yellow, the dining room in yellow, the hall in pink and the drawing room in white. The principal flowers used were Perle, Bride, Mermec and La France roses (several thousand of them), Harrisii lilies (a few hundred), hyacinths and narcissus. The veranda was inclosed and converted into a conservatory. A temporary supper room, 65x50 feet, was built, attached to the house and comfortably heated. The ceiling and walls were entirely covered with yellow bunting and all this

glare of gold and yellow was relieved with hundreds of yards of laurel, holly, pine and southern smilax. Two trees growing on the lawn which were enclosed in the building were converted one into a holly and the other a hemlock. They were, with their holiday dress off, an elm and a maple. The effect of the trees looking quite natural was fine. Scott did the job. New Years seems to be growing poorer every year as a florist "festival," but that must be expected when we remember how quiet Christmas time was 15 years ago and the enormous increase of business now done on that date.

S.

Baltimore.

We have been short of flowers, and that in spite of the fact that there is more glass in use than ever before, and more men using it; also in spite of the fact that our neighbors to the north seemed to have some to ship after supplying their own wants. To be sure this did not help us much, for a heavy percentage of what was shipped froze on the way, but it indicated that they were better able to supply their enormous demands than we were to supply ours. Now this may be owing to an exceptionally good trade here, and our florists agree in rating this season 25 to 50 per cent better than last, which is a big increase; or it may be owing to the fact, which seems most probable, that our supply is inadequate,

and whenever a fairly good trade wind strikes us it finds so little canvas up that it does not do us much good, for we either have to fall behind or get some enterprising neighbor to take us in tow. It seems occasionally, to a close observer, that there is only about two thirds enough glass in use about Baltimore to supply the demand. Necessarily there will be gluts at times, until our men get wise enough to grow their specialties to perfection and bring them in at such times as heavy demands may be expected, but with reasonable foresight and prudence they would not be more costly than they are now, even were there one half more glass in use. Let us have more green-houses. Not only more, but better. Let us have more growers. Not only more, but more skillful.

The holiday rush is over and business is about down to its usual winter level. Violets have become a little more plentiful; carnations and roses ditto. Callas are uncommonly scarce. Roman hyacinths and smilax have been in fairly adequate supply all along, and they are the only things of which this can be said. Society events are occurring so fast they tread on one another's heels, and receptions, balls, teas, etc., etc., on every day and night in the week make almost endless demand for florist's work, from the inexpensive centre piece of holly or ferns to the elaborate decoration using up a wagon load of smilax and flowers.

The Elkridge Club gave a ball during the week at which the whole club house was elaborately decorated with wild smilax and holly in large branches red with berries. The effect when lit up was charming.

The calling by society men on New Year was very marked in its falling off from the amount done last year. Possibly the day falling on Sunday made a difference, as it usually seems that when a holiday comes on that day people are undecided whether to observe it then or on the legal work day holiday which follows it, and so keep neither. This accounts for the light trade in flowers on New Year when compared with Christmas, as in previous years the one holiday kept pretty even with the other.

Taken all in all, the bitter cold, the icy streets, the short supply, and every other drawback has not prevented us from having a Merry Christmas and a Happy New Year, and the scribe feels that he is voicing the sentiment of his fellow tradesmen in wishing the same to every florist on the continent. MACK.

Toronto.

Christmas in these parts was pretty cold, the thermometer standing at 6° below zero on the morning of the 26th, and for days before and days after it registered between 20° and 30° of frost. On account of this the plant trade was considerably smaller than last year; in cut stuff, however, business was good, one florist reporting 25% increase.

Every sprig of holly was cleaned right out. Wreathing was very scarce and much more could have been disposed of.

Roses were scarce and high, the growers having shipped so many out of the city and the weather having been so much against them. Carnations were plentiful, good and cheap. Violets plentiful and in good demand. Roman hyacinths are especially fine this year. A good many chrysanthemums were to be seen about. I hear no complaints except with regard to the plant trade.

Mr. John Cotterill, florist, Deer Park, was unfortunate enough to have the plants in his store, including many palms and stove plants, frozen stiff the day after Christmas. He has also had great trouble to keep his greenhouses warm enough, having just got in a new 10-horse power boiler which does not work well; much sympathy for him is expressed by his fellow tradesmen. E.

Worcester, Mass.

Christmas trade was larger than ever and everybody had all they could jump at, and some a little more. The demand was entirely for cut flowers and palms, pot hyacinths, etc. The call for made up stuff, for holiday gifts, seems to grow weaker every year and a good thing it is too.

Roses were scarce. Brides, Mermets and Perles sold for \$5 a dozen, and Goutiers for \$3; and carnations, we had a raft of, with the exception of Wilder, and they were of excellent quality, bringing 75 cents a dozen. Bouvardia, hyacinths, narcissus and stevia made up the bulk of the stuff and there was very little of anything left Sunday noon. Quite a lot of violets were handled, but the demand was not nearly satisfied; violets brought \$4 a hundred.

Most everyone bought an extra large lot of holly and mistletoe, but there wasn't a sprig to be had after 10 p. m. Saturday.

The weather was cold enough to freeze the hinges, etc., causing a great deal of trouble in wrapping and shipping. Everything had to be wrapped in two thicknesses of tissue and cotton batting, boxed, and wrapped in manilla and even then it wanted to be delivered quick.

SEEDLING.

Salt Lake City, Utah.

The Christmas trade here, compared with former years, was very good. Good flowers went rapidly at remunerative prices; loose bunches were in demand, a departure from the mosaic styles heretofore prevailing. Judging from outside displays the trade in greens was worth looking after. Attractive plants sold well for presentation purposes. Some cutting was indulged in, arising no doubt from competition, which by the way, is quite close here just now.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

New Notes.

MAQUOKETA, IA.—Mrs. Laura E. Raines, the florist, died last October.

ELMIRA, N. Y.—Mr. Grove P. Rawson is off on a winter trip to Trinidad and farther south.

DOVER, DEL.—The Peninsula Hort. Society will hold its sixth annual session in this city Jan. 10 to 12.

DETROIT.—F. De Beul has turned his business over to his sons and the firm name will be De Beul Bros.

KALAMAZOO, MICH.—G. Van Bochove & Bro. have added three large new rose houses, erected in best modern style.

LANSING, MICH.—The State College grounds have been ornamented by a new palm house erected at a cost of \$4,500.

BAY CITY, MICH.—Wm. Roether & Co. succeed Theo. Roether & Co. The change is mainly in name, the members of the firm being practically the same.

HAMILTON, ONT.—A great attraction at present in the greenhouses of Thomas Kilvington, the florist, is an orange tree bearing between 600 and 800 oranges.

MOUNT VERNON, N. Y.—Matthew Dummett is building a new carnation house 100x18½, using locust posts, yellow pine plates and white pine sash bars. He finds this construction very cheap and durable.

PLATTSBROUGH, N. Y.—W. J. Hesser has just completed another new greenhouse 11x135. Earlier in the fall he built a cactus house 15x35 and an addition to his palm house 24x35. The latter is glazed with ¾ inch ground plate glass.

WALLINGFORD, PA.—The greenhouses of Horace Howard Furness were totally destroyed by fire the morning of December 22. The loss is estimated at \$3000, with insurance. The fire is supposed to have originated from an overheated furnace.

NASHVILLE, TENN.—A rather dull Christmas in the trade here. Fully 25

per cent. less business than last year. Roses sold at from \$2 to \$3 a dozen, carnations \$1, and other flowers in proportion, with 25 per cent. of the supply unsold. Thermometer down to zero, and a gale blowing that was hard on the coal pile.

DAVENPORT, IA.—Early the morning of December 19, fire destroyed the five greenhouses of Mrs. Asmussen in Black Hawk. Loss total—about \$3,000. No insurance. Supposed cause—wood on furnace, or defective flue. Theo. Nissen lost his wife last June, since which time he has sold out his greenhouse and moved to Hill City, South Dakota. He was the pioneer florist of Davenport. He will probably start in business again, in either Hill City or Cascade, South Dakota.

PEORIA, ILL.—The Christmas trade was the heaviest we have ever had. Holly and greens of all kinds sold at good prices. Cut flowers sold well, scarlet and red having the preference in color. Plant trade was excellent. Palms, ferns, and poinsettias sold quick, if well grown, and the same was true of flowering begonias. Bermuda lilies were on the market for the first time this season. Trade since Christmas has been excellent, but for a few weeks previous to the holidays it was dull. Money seems to be plenty as sales were largely spot cash.

CHATHAM, CANADA.—An interesting case is now being tried in the courts in which Frank W. Wilson, a nurseryman, is defendant. He sold small spruce trees by the box, charging at the rate of 5 cents per tree, his agents securing the signature of customers to a printed order in which the size of the box was given as one foot square inside, but in which the number of trees was not given. It is alleged that his agents represented to buyers that the boxes would contain from 50 to 100 trees, but when delivered the boxes contained all the way from 600 to 3,000 trees. The judge has decided that there was really no contract, saying: "I do not care what the order says, because the parties did not agree upon anything, both of them not knowing what they were agreeing upon. To make any contract there must be a mutual agreeing upon a thing that both parties fairly and reasonably understand." Evidence is now being taken upon the charges of intentional fraud.

OBITUARY.

ANTHONY COOK, JR., died at his home in Baltimore, Saturday, December 31, aged 48 years. Death was from pneumonia after a brief illness. Mr. Cook was born in Baltimore and has for the past 21 years been in business for himself. His specialty was the carnation, which he grew very successfully and of which he was continually endeavoring to produce improved varieties. He was well known and liked by the trade, and the sudden death has been a shock to his friends. He leaves a wife and four children.

WILLIAM H. WILLIAMS, of the firm of H. W. Williams & Sons, Batavia, Ill., died December 31, of consumption. Aged 44 years.

ORANGE JUDD, editor and publisher of the *Orange Judd Farmer*, Chicago, and formerly head of the *Orange Judd Co.*, of New York, died at his home in Chicago, December 27.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ANOTHER SPECIAL NUMBER.

On January 19 we shall take much pleasure in presenting to our readers another grand special number. It will be devoted to the carnation. The carnation has been making rapid strides in recent years. Some of our brainiest men are now giving their whole time and thought to its improvement, and fashion has accepted it as a favorite second only to the rose. The FLORIST is glad to take due cognizance of this fact and proposes to give the "Divine Flower" that recognition and prominence to which its present position entitles it. The reading columns will comprise valuable contributions from our most successful practical carnationists and these articles will be beautifully illustrated. We shall spare no pains to make this the most notable of our successful series of special numbers and a full and reliable record of the achievements of our carnation growers up to date. Advertisers have learned that no medium for reaching the whole trade has ever been given them equal to that furnished in these special numbers of the AMERICAN FLORIST. This one will be no exception to the rule. Those having carnations to offer or new seedlings to introduce are particularly reminded of the rare opportunity here offered. No advance in price from our regular advertising rates.

OUR TRADE DIRECTORY.

We shall issue about February 1, 1893, a supplementary sheet embodying all the corrections in addresses and additions to the list of those engaged in the florist, nursery or seed trade, of which we can obtain information. At the present rate of progress the number of additions and changes in such a list in the course of 12 months is very large. Also in the compiling of such a work as the directory some errors are unavoidable. Such as are noted we shall correct, and we would respectfully ask our subscribers to aid us by calling our attention to such inaccuracies or omissions as may have come to their notice.

The supplementary sheet will be of the same size and form as the leaves of the directory and will be distributed gratuitously to all who have purchased copies of the 1892 edition.

A few pages of the supplement will be devoted to advertisements, for which rates will be given on application.

Unqualified Colors.

In replying to Mr. Rawson on page 487, Mr. Mathews explains that pink and yellow are "unqualified names for unqualified colors" and then goes on to tell how he, in filling an order for a pink

Asparagus Plumosus Nanus.CUT STRINGS: 6 to 8 feet long, 50 cents each.
10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

and yellow design, would proceed to pink his yellow and yellow his pink. Now if the names pink and yellow belong to unqualified colors where is the point in his illustration? And as "scientifically" * * * pink throws green on yellow and yellow throws purple on pink," Mr. Mathews would "throw in a bit of complementary color which would make the pink look pinker and the yellow yellower." What can that color be which is complementary to both pink and yellow, or to pinky yellow and yellowy pink? It must be some inferior harmony of greeny purple or purple green.

Next question: What does Mr. Mathews mean by pink—unqualified pink? He mentions the chrysanthemum "V. H. Hallock" as pink, also "rose madder pure and unmixed." V. H. Hallock in my hands is a brownish pink and does not in the remotest degree suggest the pinks produced from rose madder. I say "pinks" because I am ready to admit—nay, insist—that there are scores of pinks, combinations of white with every shade of red existing between neutral orange on the one hand and neutral purple on the other.

Practically, we all agree with Mr. Rawson, yellow and pink if in harmonious tones are exquisite. See the chrysanthemum Charity. See any brunette's rosy cheek.

We have before us, as Mr. Mathews points out, "the pink chrysanthemum with the yellow disc, the wild rose, the apple blossom and the English daisy." Let us study these and not marigolds and pink asters.

It is extremely difficult to lay down rules on paper for composition of color, but this much may be safely said. Wherever you find any combination of colors in any one flower you may expand that combination with any number of flowers of the same shades of color. To be able to do this successfully your eye must be educated to discern not only the tints but the accidental tones as well.

In conclusion, what an admirable article Mr. Mathews gives us on Christmas decorations. I have only one suggestion to make and that is that the ribbon in Fig. 5 be made twice as wide. It is a much more important part of the design than the sketch shows it.

RICHARD FERRIS.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

AMES, IA.—A special prize offered to students in the state agricultural college here, for the best herbarium of cryptogamic plants, was won by a colored student by the name of Carver. The herbarium will be displayed at the World's Fair.

ZANESVILLE, O.—A fire at the green-houses of J. D. Inlay, Dec. 22, caused a loss of \$200.

**H. L. SUNDERBRUCH,
WHOLESALE FLORIST**4TH & WALNUT STREETS,
Cincinnati, O.**DAN'L B. LONG,
COMMISSION • FLORIST,**

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.**C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,**1122 FINE STREET,
St. Louis, Mo.

A complete line of Wire Designs.

**WM. ELLISON,
(Late of ELLISON & KUEHN),
WHOLESALE FLORIST,**

AND FLORISTS' SUPPLIES,

1402 PINE ST. ST. LOUIS, MO.

**SMITH, The Florist,
GROWER OF**

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL,

77 S. 7th Street, MINNEAPOLIS, MINN.

HARDY CUT FERNS?

Oh Yes, over

5,000,000.

I can supply you the year round with A1 goods. Also new Bouquet Green, Laurel festooning, etc.

H. E. HARTFORD,
18 Chapman Place, BOSTON, MASS.
Mention American Florist.

CUT FLOWERS WANTED

from growers within shipping distance
Correspondence solicited. Address

LOUIS SMITH,
Flower Exchange, Hot Springs, Ark.

Tuberous Begonias.

DRY TUBERS NOW READY.

Colors white, red, yellow, pink, per 100,
\$6.00, sent by mail.

BRAUER & RICHTER,
MCCONNELLSVILLE, O.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS., WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET,
CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL, Wholesale Florist and Dealer in FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO. Incorporated.

WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

M. OLSON,* Wholesale FLORIST,

66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO. Wholesale and Commission FLORISTS,

45 Lake St., CHICAGO, ILL.
*In Chicago Cut Flower Exchange.

Cut Flowers Wanted.

Consignments of Roses and Carnations
wanted from growers of fine stock.

Wisconsin Flower Exchange,
131 Mason Street, MILWAUKEE, WIS.

WHOLESALE FLORISTS



La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

Mention American Florist

SAMUEL S. PENNOCK, Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.
Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 3.	
Roses, Gontier, Niphotos.....	8.00@10.00
" Perle, Wootton.....	15.00@20.00
" Waterville, Cunin.....	15.00@20.00
" Mermets, Bride.....	15.00@20.00
" Bridesmaid, La France.....	20.00@25.00
" Meteor, Testout.....	25.00@30.00
" Magna Charta, Alexieff.....	25.00@30.00
Carnations.....	2.00@2.50
Violets.....	2.00@2.50
Valley, daffodils.....	6.00
Hyacinths, Paper White.....	1.00@1.50
Mignonette.....	8.00@15.00
Harrisii.....	10.00
Cattleyas.....	50.00
Cypripediums.....	20.00
Lilac, per bunch.....	2.00
Snulax.....	15.00
Adiantums.....	1.00

BOSTON, Jan. 3.	
Roses, Niphotos, Gontier.....	8.00@12.00
" Perle, Sunset, Wootton.....	10.00@15.00
" Bride, Mermets.....	12.00@20.00
" Meteor.....	20.00
" Beauty.....	100.00
Carnations.....	2.50@4.00
Violets.....	1.00@1.50
Valley, daffodils.....	1.00@1.50
Hyacinths, Paper White.....	1.00@1.50
Violets.....	2.00@2.50
Mignonette.....	3.00@4.00
Callas, Harrisii.....	16.00@20.00
Hovardia.....	2.00@3.00
Stevia, pansies.....	2.00
Snulax.....	12.50
Adiantums.....	1.00@1.50
Asparagus.....	50.00

PHILADELPHIA, Jan. 3.	
Roses, Mermets, Bride.....	15.00
" La France.....	15.00
" Meteor.....	15.00@18.00
" Perle, Gontier.....	6.00@8.00
" Beauty, hybrid.....	30.00@35.00
Tulips.....	5.00
Romans.....	3.00
Narcissus.....	4.00
Valley.....	6.00
Carnations.....	3.00

CHICAGO, Jan. 3.	
Roses, Gontier, Niphotos.....	5.00
" Mermets, La France, Albany.....	7.00
" Bride, Wootton, Bennett.....	25.00
" Beauty.....	7.00
Carnations, short.....	2.00
" long.....	1.00
" fancy.....	3.00
Callas, Harrisii.....	20.00
Romans.....	2.00@4.00
Valley.....	5.00
Violets.....	1.00@2.00
Snulax.....	15.00
Adiantum.....	1.25

Peck & Sutherland, Successors to WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE.
67 Bromfield Street, BOSTON, MASS.
Mention American Florist

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations
always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

WELCH BROS., Wholesale Florists,

NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.
Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Opposite School St., near Parker House), BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

BURNS & RAYNOR, 49 West 28th Street, NEW YORK.

WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN, — WHOLESALE — FLORIST, 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY, WHOLESALE DEALERS IN

CUT FLOWERS

51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St.

JAMES HART, WHOLESALE FLORIST, 117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S, — WHOLESALE — FLORIST, 111 WEST 30TH STREET, NEW YORK CITY.

Established 1879. . . .

MILLANG BROS., Wholesale Florists, 5 WEST 27TH STREET, NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART, Wholesale & Commission Florist 113 WEST 30TH STREET, NEW YORK.

The finest Roses, Violets and Carnations
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN, 34 W. 29th Street, NEW YORK, Wholesale Florist

Careful Shipping to all parts of the country.
Price list on application.

HENRY W. BAYLIS, Wholesale Florist 940 BROADWAY, NEW YORK.

CUT SMILAX.

From Nov. 1st to May 1st our price for Smilax will
be 20 cents per string. Quality first-class. Prompt
attention to orders by wire.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

When writing to any of the advertisers
on this page please mention the AMERICAN
FLORIST.

the Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

THE EXECUTIVE COMMITTEE of the American Seed Trade Association will meet at the Cosmopolitan Hotel, New York City, Tuesday, January 17, at 10 a. m.

A. D. PERRY, of Syracuse, N. Y., is reported to have sold his interest in the well known seed business of A. D. Perry & Co. to F. H. Ebling, his partner, who will continue.

F. C. HUNTINGTON & Co., of Indianapolis, will remove to an elegant new store at 66 E. Washington street February 1, and expect to add to their stock of seeds, etc. a full line of florists' supplies.

THROUGH the efforts of J. Chas. McCullough, of Cincinnati, the official classification No. 11 of Central Traffic Association will specify sunflower seed in bags or sacks, L. C. L. third class, C. L. fifth class. This is quite a reduction from former rates.

CHARLES LOHRMAN and Philip Breitmeyer, of Detroit, have formed a partnership and will open a general seed store at the corner of Gratiot and Randolph streets about January 1st. They will carry a full line of farm and garden seeds for the retail and wholesale trade and expect to make the growing of seed beans, corn, etc., a feature of their business. Mr. Lohrman will have charge of the details of the business as Mr. Breitmeyer still occupies his place in the firm of J. Breitmeyer & Sons.

Packing Hot-Water Pipes.

Some thirty years ago, in England, I piped a greenhouse with 4-inch cast-iron pipe, and at the joints used an India rubber ring about 1½ inch thick and 3½ inches in diameter. It was given two or three twists and put over the ring and then run into the socket and steadied with Portland cement, making a complete joint. Have any of your readers used it, and can the rings be procured in this country, as it is a very simple way of fixing pipe. I saw the pipe put in by me ten years after, and it was just as good as at first. I also want to know the number of rows of 4-inch pipe required in a house 70x10, with a night temperature of 60°. Lowest temperature outside 20° below zero. Any information on the above will be gladly received.

HORTUS.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIAL!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

Mention American Florist.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to

I. HORACE McFARLAND, Harrisburg, Pa.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

OSKAR KNOPFF & CO.,

SEED GROWERS,

Erfurt, = Germany,

FLOWER, KITCHEN GARDEN, ETC. SEEDS.

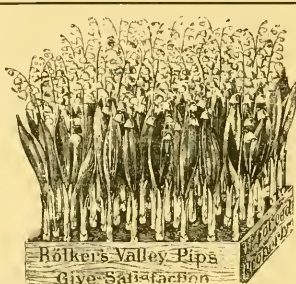
Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

The Trade SEED CATALOGUE of
C. PLATZ & SON, ERFURT, PRUSSIA
Will be mailed to all applicants, by their Agent,
C. RAOUX, 296 Pearl Street, New York.



BEST GERMAN FORCING PIPS

Price: \$9 the 1000,
\$20 the box of 2500,
Less ten per cent. for prompt cash.

August Rölker & Sons
NEW YORK, P. O. Station E.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered for sale from cold storage.

2,500 to 5,000 Pips	at \$8.50 per 1000
7,500 to 10,000 Pips	at \$8.00 "
12,500 to 25,000 Pips	at \$7.50 "

C. C. ABEL & CO., New York.
P. O. Box 920.

1st QUALITY.

We have gained the reputation of having the finest TUBEROSES in the world, and if you would have the **VERY BEST**, send us for sample. Two important items, viz.: Quality the best. Price the lowest. Send today for FREE sample by mail POSTPAID. Address

H. G. FAUST & CO.,
64 & 66 N. Front St., PHILADELPHIA, PA.

SEEDS!

PLANTS! BULBS!

Everything pertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.
WEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

75,000 IPOMOEA PANDURATA

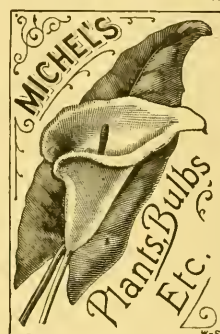
(Day-Blooming Moonflower.)

ROOTS FRESH AND SOUND, per 100 \$2.50; 500 at 100 rate. Per 1000 \$20; 500 at 1000 rate.

Orders booked and shipped when desired.

Orders booked for ACHILLEA "The Pearl", at \$25.00 per 1000.

JAMES FROST, Greenville, Darke Co., O.



Write for wholesale list.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIFENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

MUSHROOM Growers are not saying much; but they wear a satisfied smile that is eloquent. "A crop in five weeks, and a dollar a pound."



10 lbs. 25 lbs. 50 lbs. 100 lbs.
\$1.20. \$2.75. \$5.00. \$8.00.

Special prices on large quantities. Our pamphlet on growing free to all.

JOHN GARDINER & Co.,
PHILADELPHIA, PA.

Mention American Florist.

SMILAX.

10,000 Strings now ready at 15 cts. per string.

ROSES.

100,000 from 2½-in. pots. Prices on application.
Also a fine stock of assorted varieties, from 3½-inch pots, at \$5.50 per 100; \$50.00 per 1000.

THE NATIONAL PLANT CO.,
DAYTON, OHIO.

Mention American Florist.



FREE TO ALL:
Our New Illustrated Catalogue of PLANTS, ROSES, BULBS, VINES, SHRUBS, ORNAMENTAL TREES, SMALL FRUITS, GRAPE VINES, SEEDS, etc., will be mailed FREE to all applicants. 100 pages. Most complete Plant Catalogue published. Satisfaction Guaranteed. 20 ROSE HOUSES, 45 GREENHOUSES; 30 acres NURSERIES.
Address
NANZ & NEUNER, LOUISVILLE, KY.

New Trade List for Florists Only.

No Trees of 1st quality can ever be sent by mail. Mayhap you know it. By freight, prepaid if preferred, we ship safely 4, 5, or 6 ft. trees, 2-yr. Roses of rare excellence—everything! You actually pay less than for the puny stuff. 1,000 acres Nurseries. 20,000 acres Orchards. Exact information about trees and fruits. Stark Bros., Louisiana, Mo.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society in Sept. 1893, we took with our Begonias **Fourteen First Prizes**, including the Gold Medal and also the Affortuit Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

SPECIAL SALE OF DRACÆNAS

FOR 30 DAYS.

All orders must be accompanied by cash.

Send in your orders early.

	In.	In.	price
	pots	high	each per 10
Dracena Amabilis.	4	10 to 12	\$0.40 \$3.50
" " " " " " " " " " " "	5	18 to	.65 6.00
" " " " " " " " " " " "	6	22 to 24	.80 7.50
" Braziliensis.	4	12 to 16	.35 3.00
" " " " " " " " " " " "	5	18 to	.50 4.50
" Brunatii.	6	20 to 22	.80 7.50
" " " " " " " " " " " "	4	12 to 15	.35 3.00
" Congesta.	4	12 to	.20 1.75
" " " " " " " " " " " "	5	18 to	.35 3.00
" Draco.	4	10 to 12	.30 2.50
" " " " " " " " " " " "	5	12 to 15	.25 2.10
" Hybrida.	5	18 to	.75 7.25
" " " " " " " " " " " "	6	20 to 24	1.00 9.50
" Stricta Grandis.	5	15 to 18	.35 3.00
" " " " " " " " " " " "	6	18 to 24	.80 7.50
" Splendens.	4	8 to 10	.35 3.20
" " " " " " " " " " " "	5	12 to 15	.50 4.50
" Terminalis.	4	12 to 14	.18 1.50
" " " " " " " " " " " "	5	15 to 18	.25 2.40
" " " " " " " " " " " "	6	18 to 22	.35 3.25

Dracena indivisa and Veitchii

3 in. pots, 15 to 18 in. high	each	50 cts per 100
4 " " " " " " " " " " " "	10	\$0.07 \$0.65 \$ 4.00
5 " " " " " " " " " " " "	10	.90 8.00
5 " " " " " " " " " " " "	15	1.40 13.00

Send for Wholesale List of Palms and other Decorative Plants.

W. J. HESSER, Plattsmouth, Neb.
Mention American Florist.

"CHRYSLA" Routed Coleus. Cuttings.

BEST VARIETIES. BEST STOCK.

75 cents per 100; \$6.00 per 1000.
Cash with order.

FUCHSIAS are all ordered to Jan. 10th.

Send for Chrysl-Cola Price List.

S. B. FIELD, Roselle, N. J.
Mention American Florist.

If
You Think
any kind of a crop will do, then
any kind of seeds will do, but for
the best results you should plant

FERRY'S SEEDS.

Always the best, they are recognized as
the standard everywhere.

Ferry's Seed Annual is the most
important book of the kind published.
It is invaluable to the
planter. We send it free.

D. M. FERRY & CO.
DETROIT,
Mich.

World's Fair.

We have obtained a quantity of the handsome colored lithographs of the

Horticultural Building

of the World's Fair, at a special low rate, and will mail a copy, prepaid, in a tube, to any address on receipt of the price, now reduced to **50 cents.**

American Florist Co.,

322 Dearborn Street, CHICAGO.

Florists!



It will pay you to consult my list before buying your

ROOTED CARNATIONS.

I can supply the leading novelties of 1893 and 30 best standard sorts, new and old.

ROOTED COLEUS.

In 25 varieties, best bedders and fancies, including a new yellow that will be an acquisition.

Descriptive Trade List

Sent on request. Address

ALEX. McBRIDE,

. **ALPLAUS, N. Y.**

Mention American Florist.

Siebrecht & Wadley, ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.



Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

SURPLUS ORCHIDS FOR SALE

SPECIMEN DENDROBES

of several kinds, in perfect health, with 40 to 50 bulbs each, with many new ripe ones for flowering. Also many other kinds for sale to make room, or exchange for cool house Orchids.

DR. GEO. W. LITTLE,
GLENS FALLS, N. Y.

KENTIAS { BELMORIANA, FORSTERIANA,

\$3.00 to \$15.00 each.

John Burton,

CHESTNUT HILL, PHILADELPHIA, PA.

Mention American Florist.

PHLOX SEED, EXTRA.

Choicest Drummondii Grandiflora.

A selection of the largest and finest flowering varieties that can be procured; grand colors and size; very highly praised by the florists who grew this strain in pots last season; do not fail to sow it. Trade Pkt., 20 cts.; 3 Pkts., 50 cts.; 7 Pkts., \$1.00.
JOHN F. RUFF, Shiremanstown, Pa.

Propagating Alternantheras.

Mr. P. Heinsch, a Chicago florist, skips the sand bed entirely in propagating his alternantheras. He inserts the cuttings (five in a 2½-inch pot) direct in soil lightened with sand, treating otherwise as though in the sand bed, and holds them in the pots until March, when the plants are separated and each potted singly and then placed out in hot beds. He never allows the temperature to drop below 60°, and ventilates the hotbeds only on very warm, sunny days. He propagates paronychioides from cuttings taken from bedded plants in August, but of the other sorts stock plants are carried over in the greenhouse and cuttings taken in January. He finds his method the least expensive in labor and greenhouse room, and at the same time productive of good plants.

Goats and Weeds.

It is reported that a southern florist has a pair of goats that keep the weeds down in his rose houses, they having been trained to eat the weeds and leave the roses alone. This seems very ingenious, but we wouldn't bank much on roses growing in beds in which the weeds were allowed to grow big enough to furnish fodder sufficient for even one goat.

A Great Pair.

EDNA GRAIG } \$12 per 100.
GRACE BATTLES } \$100 per 1000

Orders booked now for Feb. delivery.

We shall soon have our plants housed, but still have for sale good plants of Aurora at \$15.00 per 100, and Golden Gate at \$3.00.

Some Specialties for 1893 will be

Aurora	New Jersey
Thos. Cartledge	Nancy Hanks
Pearl	Dorner
Golden Triumph	Mrs. Pitt
Grace Darling	Ben Hur
Puritan	Daybreak
Emily Pierson	White Wings
Orange Blossom	Edwin Loudale
Angelus	American Flag.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

Mention American Florist.

A FULL HAND BEATS A GREAT PAIR.

DORNER'S SEEDLINGS.

Wm. Scott,	
Diaz Albertini,	
Elizabeth Reynolds,	\$10.00 per 100.
Richmond,	\$75.00 per 1000.
Purdue,	
Spartan,	February Delivery
Wabash,	
Dr. Smart,	Orders booked now.
Blanche,	
Western Pride.	

Cottage Garden Greenhouses,
EAST MORICHES, N. Y.

C. W. WARD, Manager.
Mention American Florist.

THE NEW WHITE CARNATION GOV. RUSSELL

Will be distributed March 1, 1893.

PRICE OF ROOTED CUTTINGS: • • • •
PER 1000, - - - \$80.00
100, - - - 10.00
25 OR LESS, \$2.00 PER DOZEN.

Orders will be filled strictly in rotation.

For Sale by

N. F. McARTHUR & CO., 1 Music Hall Place, Boston, Mass.

G. J. PENNOCK, Kennett Square, Pa.

AND E. H. HUNT, 79 Lake Street, Chicago.

ROOTED CUTTINGS.

Price List ready January 10th. • • •

• • Carnations and Geraniums ready now.

Correspondence Solicited. Inspection Invited.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at
MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready
January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

CARNATIONS

ROOTED CUTTINGS.

Send for Price List of all the leading
varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.
Mention American Florist.

You will benefit the American Florist
by mentioning it every time you write
an advertiser in these columns.

BENJAMIN RIMBAUD, BULB GROWER,

Quartier du Temple, Toulon, var, France.

Cable address Benrimbaud, Toulon.

The largest cultures in the South of France, of
WHITE ROMAN HYACINTHS, Narcissus Paper
White grandiflora; N. Double Roman; N. Double
Von Sion, true pure yellow, and other Daffodils.
Edwin Candlish, the largest bulbs. Freesias,
Jonquilla Campanella at largest flower, early for forcing.
Allium, Anemones, Carlin's Hat, A. Double
Rosette the earliest, etc. Prices on application.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.

When writing mention American Florist.

EDNA CRAIG CARNATION.

The greatest new thing of recent years for Commercial purposes.

Every Florist should grow it next year. BECAUSE

It is the very finest Carnation of Wilder pink yet introduced.

It is of the largest size, with heavy fringed petals.

The flower is produced on long, stiff stems.

It has never shown a sign of disease.

It has never shown a burst calyx.

It is an all-season bloomer. The blooms taking the Madison square cup in November and those taking the Craig cup at Philadelphia in April were borne by the same plants.

Its lasting qualities, both cut and on the bushes, are wonderful.

It is a prime shipper, both prize-winning lots having been sent all the way from Indiana.

When all other Carnations are retailing at Philadelphia for 35 cents per dozen, the entire crop of Edna Craig is selling at \$5 per 100, wholesale, and every bloom engaged for the season at the same price.

What more conclusive evidence can be given of its value?

We have already orders booked for over 25,000 of it.

\$12.00 PER 100.

\$100.00 PER 1000.

READY MARCH 1, 1893.

After viewing a house of it, Eugene Dailledouze said it was the finest thing he had seen.

W. K. Harris remarks as follows: **"Edna Craig—**

When I look upon thy perfect form, and beauty,

So well defin-ed in thy blushing face,

I wonder how nature could have committed

So many errors in each of all thy former race (!!!)

Make my order 1000 instead of 500.

W. K. H."

The stock of Edna Craig is held jointly by

E. G. HILL & CO., Richmond, Indiana,

AND ROBERT CRAIG, 49th & Market Sts., Philadelphia, Pa.

Orders sent to either firm will be filled March 1, 1893.

CARNATIONS * AHEAD.

You want the best in the market! We have them! Send for our complete Price List of all the NEW as well as STANDARD VARIETIES.

GEORGE HANCOCK, Grand Haven, Mich.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. F. Dreer, J. K. Freeman,

and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES

500 Paul Neyron, strong plants, \$10.00 per 100.

20 other leading varieties, \$10.00 per 100.

\$50.00 per 1000.

CHRYSA nth EMUMS.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures.

Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

ROOTED CUTTINGS OF

CARNATIONS

All the leading varieties.

Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chesler Co., Pa.

ROOTED CUTTINGS

Of the Best Old and Most Promising new varieties of

CARNATIONS.

Write for a catalogue and send list of wants for an estimate.

J. J. Styer,
CONCORDVILLE, PA.

ORDERS BOOKED NOW FOR MY SPECIALTIES FOR 1893.

New Jersey.—A scarlet Carnation hard

to beat, \$12.00 per 100

Old Rose.—Old rose pink Carnation.

\$12.00 per 100

Nellie Bowden.—Pure bright yellow

Carnation, \$60.00 per 1000

READY IN FEBRUARY.

Other varieties of Carnations, both old and new.

JOHN MCGOWAN, Orange, N. J.

ROOTED CARNATION CUTTINGS

READY FOR IMMEDIATE SHIPMENT.

	Per 100	Per 1000
Mrs. Fisher.....	\$1.50	\$12.50
Hinge's White.....	1.50	12.50
Lizzie McGowan.....	2.00	15.00
Puritan.....	5.00	25.00
Pearl.....	4.00	32.50
Grace Wilder.....	1.50	12.50
Fred Creighton.....	2.00	15.00
Angelus.....	3.00	25.00
Ben Hur.....	5.00	25.00
Thos. Cardigan.....	5.00	40.00
The Two Coronets (each).....	5.00	40.00
Buttercup.....	4.00	32.50
Crest.....	5.00	40.00

Others ready during January.

The Pines. C. J. PENNOCK, Kennell Square, Pa.

ORANGE BLOSSOM CARNATION.

One of the leading new varieties, and an immense bloomer; received a Certificate of Merit in 1891, color Pink, Edged White.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.

MAY FLOWER, splendid variegated, \$2.50 per 100. THE JENNINGS STRAIN OF PANSIES, trade packet, 2000 seeds, \$1.00. Fine, stocky plants, small, 10c, per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,
SOUTHPORT, CONN.

Lock Box 254.

W. R. SHELMIER, Carnation Grower

AVONDALE, CHESTER CO., PA.

Send for price list of Rooted Cuttings.

ROOTED CUTTINGS OF CARNATIONS

Ready now in large quantity, including GRACE BATTLES, EDNA CRAIG, DAY-BREAK, PURITAN, AURORA, and fifty other best standard varieties.

Trade price list sent on application.

JOSEPH RENARD, Unionville, Chester Co., Pa.

LOOK.

Is this the place you would like to buy your Carnations? If so, you will receive for Cash the following: Lizzie McGowan (Gairfield, Silver Spray, Mrs. Fisher, Puritan, Hinge's White and Lambert, at one dollar (\$1) per hundred, Tidal Wave, Hector, Fred, Creighton, Ferrelland, Mangold, Mrs. F. Mangold, J. J. Harrison and Nellie Lewis, at \$1.50 per hundred, White Dove at \$2.00 per hundred, Golden Triumph, at \$3.00 per hundred. Cuttings now ready.

E. B. LEWIS, Lockport, N. Y.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORIST'S, NURSERYMEN'S AND SEEDSMEN'S AGENTS.

— For the following —

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedsman, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen, Ussy, France. Roses, Evergreens, Fruit and Forest stocks.

ERNST RIEMSCHEIDER, Florist and Seedsman, Altona, Germany. Berlin Lily of the Valley a specialty.

EDM. VAN COPPENOLLE, Nurseryman, Ghent, Belgium. Established 1834. Large culture of Araucarias, Azaleas, Indica and Mollis, Bay Trees, Begonias, Gloxinias, Palms, Rhododendrons, etc., etc.

ALPHEESE ROCHE, Orléans, France. Extensive and special plantation of Immortelles and dyed in all colors and shades.

ERNEST RIEMSCHEIDER, Florist and Seedsman, Altona, Germany. Choice selections of German Flower Seeds. Also of Palms, Grass and Garden Seeds. Best Sugar Beet Seeds a Specialty.

Catalogues (mention which) free on application when received for distribution.

All orders for these houses must be plainly written and addressed to us.

IF YOU WISH TO GIVE YOUR BUSINESS A BOOM!

PUT IN THE

SNOW GREST DAISY

T'will help to cheer the winter's gloom,
And make the times go aisy.

Stock practically unlimited. All this **DAISY** needs is to be seen seen to be appreciated. It can **BLOW ITS OWN BELL** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar, 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—a few ounces left. 500 seed 30c.; 1000, 50c.; 1/4 oz. \$1.50; 1/2 oz. \$2.50; 3/4 oz. \$4.00. Plants of same 60c. per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strains, in fine mixture, plenty of whites, incans crimsons and purples with all the intermediate colors and tints, in packets of 100 seeds, 50c.; 1/4 oz. \$1.00; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the *Dikoto Primrose*; you will be charmed with its great white, scented blossoms, 2 to 3 inches across; 100 seeds, 25c.

Double fringed *Dianthus*, fine strain, all colors mixed, trade packet, 20c. Rooted Cuttings and small plants of our leading specialties later. Address, cash with order, please, J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager.

CHESTNUT HILL, Philadelphia, Pa.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.



Spotted Calla.

PINK TIGRIDIAS,

White Tigridias,

LILAC TIGRIDIAS,

Yellow Tigridias,

RED TIGRIDIAS,

and several other sorts.



Calla, "Little Gem."

FOR NOVELTIES AND
STANDARD BULBS,

See our Wholesale Bulb Catalogue, mailed free on application.

A. BLANC & CO.

314 N. 11th Street, PHILADELPHIA.

RARE BULBS AND CACTI.

Centrosema Grandiflora.

* * * The Great Novelty of the Season.

See all Seedsmen's Catalogues for 1893.
INTRODUCED BY U. S. * * *

Our entire stock of seed is disposed of, but we can still supply a number of stock plants at \$15.00 per 100; \$10.00 for 50; \$5.00 per 12. This novelty was immediately taken up by the prominent European houses. Raise your own seed from stock plants. It is being sold now at the rate of \$3 per lb.



Black Calla.

Rooted Cuttings.

Carnations, New Scarlet, Emily Per 100
Pierston.....\$3.00
Leading varieties.....1 25
Violets, Russian and Neapolitan.
Coleus and Alternantheras in var.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS.

SEND FOR LIST.

A. N. PIERSON, Cromwell, Conn.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants. \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDW. SEND FOR CATALOGUE.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpasses those of last year.

J. L. DILLON, Bloomsburg, Pa.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARAUCARIAS, CYCAS, ETC.

Send For Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, C. L.

CATALOGUE PRINTING.

ELECTROTYPING.

Done with expert ability for Florists. Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

Some Recent Legal Decisions.

Under this head we shall give from time to time the latest decisions of the higher courts upon matters that may be of interest to those in the trade.

DAMAGES FOR DELAY IN DELIVERY OF GOODS BY RAILROADS.

It is the duty of common carriers, as for instance railroads, to provide sufficient and suitable means for the carriage of the goods they receive, and to make delivery of them with all convenient dispatch and, while accidents and obstructions will excuse delay, they do not put an end to the contract, which must be completed as soon as the impediment to the transportation of the property is removed or can reasonably be overcome. And where there has been an unreasonable delay in the delivery of goods to the consignee by a railroad company or other common carrier the measure of damages is ordinarily the difference between the value of the goods when they were delivered and when they should have been delivered, to which may be added reasonable expenses caused by the delay.

Baltimore & O. R. Co., v. O'Donnell, Supreme Court of Ohio. 32 N. E. Rep. 480.

PRESUMPTION OF TITLE ON DELIVERY OF GOODS FOR SHIPMENT.

The legal presumption is that, upon the delivery of goods to a common carrier for shipment, the title thereto vests in the consignee, and this presumption the carrier has a right to rely upon, in the absence of express notice from the consignor to the contrary. The carrier, therefore, has the right to settle with the consignee in case the property is lost, stolen or destroyed.

Dyer v. Great Northern Ry. Co. Supreme Court of Minnesota. 53 N. W. Rep. 714.

OUR SPECIALTY.



For Florists, Plain and Fancy; also a full line of

FLORISTS' SUPPLIES,
At Wholesale only. Send for List.

August Rölker & Sons
New York,
P. O. Station E. 136 & 138 W. 24th Street.



Please mention the AMERICAN FLORIST every time you write to an advertiser.

Adiantum Capillus Veneris,

The coming Fern for florists. For reasons why see AM. FLORIST, issue of September 1st, page 119.

Splendid young stock, 2 and 2½-inch pots, now in prime condition to ship. Price \$8.00 per 100.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5-inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • Bay City, Mich.

For Mildew on Roses and Carnation Rust USE FOSTITE!

It Costs Nothing to Try Fostite!

A Five-Pound Sample Package SENT FREE
with an order for one of JOOSTEN'S MAGAZINE
BELLOWS. Price \$3.50. Cash with order.

SOLD BY DEALERS IN SEEDS AND FLORISTS' SUPPLIES.

C. H. JOOSTEN, 3 Coenties Slip, New York.

For Sale in Chicago by E. H. HUNT, 79 Lake Street.



Fancy.

Dagger.

4,000,000
Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

CUTS!



Wood Engraving,

Zinc Etching,

Half-Tone,

Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,

183 Monroe Street,
CHICAGO.

ENGRAVERS.

OUR NEW TRADE DIRECTORY

FOR 1893

Contains a list of all the FLORISTS, NURSERYMEN
and SEEDSMEN of the United States and Canada.
Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

Association "Flora"

BOSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSES, for forcing, 9.00

In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Lucret, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blanchies, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Palms, Dracenas, Araucarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,

JERSEY CITY, N. J.

Mention American Florist.

NOVELTY FOR 1893! Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as of other EXTRA CHOICE FLOWER SEEDS free on application.

**FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.**

CHRYSANTHEMUMS.

NOVELTIES AND ANCIENTS.

Our New Chrysanthemums for 1893 are unquestionably the finest lot ever offered to the trade, as the awards made all over the country attest. 12 first premiums awarded to varieties in the set and 11 first-class certificates. Abundant testimonials of appreciation have been poured upon us by visitors at the various shows. If you want to be in the prize winning classes you need our novelties.

A. T. EWING—Broad, ribbon-like petals of rich carmine. Winner of 1st premium at Indianapolis and Cincinnati.

GEO. R. GAUSE—An improved full double Walter Colces. 1st premium at Chicago for best bronze.

JOEY HILL—Deep cardinal red faced old gold. 1st premium at Indianapolis.

MAUD DEAN—Rosy pink, an ideal flower. Silver cup Indianapolis. Silver medal Philadelphia.

MRS. J. W. CROUCH—A Japanese purple. 1st premium Madison square. 1st premium at Cincinnati.

Anna Woods, Jennie Williams, Judge Hoit and all the record makers. 12 for \$7.50.

The above are our own varieties. We can supply all the novelties offered by the different raisers at disseminators' prices.

ANY 25 NOVELTIES SELECTED FROM DIFFERENT RAISERS FOR \$14.00; 50 VARIETIES FOR \$25.00; 100 FOR \$40.00.

The earliest and best white is **Miss Kale Brown**, coming into market first week of October. We control all the stock and have made a large quantity so as to give all an opportunity. \$8.00 per 100.

We have all the leading Cut Flower varieties:

MRS. WHILLDIN, IVORY, MARGUERITE GRAHAM, MRS. ROBERT CRAIG, JESSICA, FLORA HILL, VIVIAND-MOREL, H. E. WIDENER, GOLDEN WEDDING, MRS. MADEIRA, and all the rest.

YOU NEED OUR PRICE LIST BEFORE MAKING OUT YOUR ORDERS.

E. G. HILL & CO., Richmond, Ind.

N. B.—A full line of the best Greenhouse Stock also listed in it, ROSES, CARNATIONS, GERANIUMS, BEGONIAS, ETC.

TOBACCO STEMS

FOR FLORISTS.

Packed in bales.

PRICE:

200 lb. bale.....\$2.50

500 lb. bale.....\$5.00

CANE STAKES.

Fresh stock: per 1000,

7 to 10 ft., \$7.00.

WM. ELLIOTT & SONS,

SEEDSMEN,

54 & 56 Dey St., NEW YORK.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

53 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,

FLORISTS' • SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States.

Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

Please mention the American Florist every time you write any of the advertisers on this page

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, Queens, Co., N. Y.



Wormy Fruit and Leaf Bright and Potato Rot—by spraying with Stahl's Double Action Expector Scurvy Outlets. Best in the market. Thousands in use. Catalogue describing all insects injurious to fruit, mailed free. Address **WM. STAHL, Quincy, Ill.**



W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest Award where-

ever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters,

\$3.00 per 100.

Postage, 10c. per 100.

Before purchasing

send for free sample

and Catalogue and

compare with any

other letter in the

market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
AGENTS: J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. J. ROSE, N. Y.; A. O. BOLKER & SONS, N. Y.; ED. S. SCHMIDT, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture the BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent

fastener with each letter.

With orders for 500 letters we give away a nicely

stained and varnished box. See cut in next

week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: Marschuetz & Co., 25 N. 4th St., Philadel-

phia, Pa.; A. Rolker & Sons, New York; F. E. Mc-

Allister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia;

H. Bayersdorfer & Co., Philadelphia, Pa.; A. C.

Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C.

Kendall, 15 Ontario St., Cleveland, Ohio; E. E. Hunt,

73 Lake St., Chicago; Wisconsin Flower Exchange,

131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th

and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons,

6th and Marshall Sts., Richmond, Va.; Jas. Vick's

Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N.

Y.; C. A. Kiehn, St. Louis.

J. A. Simmers, Toronto, Ont., Act. for Canada.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Locomotive Boiler for Heating.

In reply to "Subscriber's" query as to the practicability of using a common portable boiler for heating purposes, will say they are used by many florists in that capacity, both for steam and hot water system. All the change that is necessary is to provide for attachment of flow pipe at the highest point at top of boiler, and return pipe at or near the bottom, of sufficient size to afford free circulation. When the hot water system is used, for either steam or hot water, the main flow pipes are attached at top of boiler, and return pipes as low down as possible. But water needs larger main connections than steam. Where steam is used the boiler should set low enough to be below all the lines of radiating pipe, the lower the better. With hot water the boiler may set on same level with heating pipes and avoid expense of pit and liability of annoyance from surface water.

The fittings for steam are pressure gauge, water gauge, air valves on every line of pipes and numerous stop valves to regulate the heat in different locations and many use draft regulators, etc.

Hot water fittings consist of a supply tank, which also acts as expansion tank, a feed and a vent pipe.

If "Subscriber" wishes further information it will be cheerfully given if he sends address and postage stamp to
Evansville, Ind. J. D. CARMODY.

Locomotive Boiler for Heating.

A subscriber asks if any reader of the FLORIST has successfully used a locomotive boiler for heating. I reply yes. I have one at work now, using hot water under pressure, and can change to steam in five minutes by lowering water in boiler to the water gauge. The boiler is fitted as for steam—with water and steam gauge and safety valve, the latter placed at the highest point in flow pipe. The depth of the boiler pit, from highest point in flow pipe, is 8 feet. The flow is at top of dome and the return at bottom of boiler. The pipes are all 2-inch. My boiler has heated three houses of 50 feet each, with 15 pounds pressure, to 60° on the coldest night this season without any attention from 10 p. m. to 7 a. m.

Fill the boiler and pipes full of water, set safety valve at 50 pounds, then fire up and the boiler will blow off all water not needed if the pipes are right. But be sure there are no dips in the flow pipe or raises in the return. Pipes should rise to the point where safety valve is placed and then fall to the boiler.

I hope this is plain and will be of assistance to "Subscriber," and will prove something in repayment for the many valuable hints I have received through the FLORIST. J. F. CLARE.

McKeesport, Pa.

**THE BEST POTS.
THE CHEAPEST.
THE LOWEST FREIGHT RATES.
THE BEST OF PACKING.
THE LARGEST POTTERY IN THE STATE
FOR MAKING STANDARD FLOWER POTS.**

PRICE LIST OF POTS.

Per 100		Per 100	
2 1/2 inch	.....\$ 3.25	6 inch	.....\$ 2.20
2 3/4 "	.....3.40	7 "	.....2.40
3 "	.....3.50	8 "	.....2.60
3 1/2 "	.....3.75	9 "	.....2.80
4 "	.....4.00	10 "	.....3.00
4 1/2 "	.....4.25	11 "	.....3.20
5 "	.....4.50	12 "	.....3.40
5 1/2 "	.....4.75		
6 "	.....5.00		

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Pottery

FOOT EDWARD, N. Y.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER STANDARD FLOWER POTS.

Write for an illustrated catalogue and price list of Pots, Lawn Vases,
Hanging Baskets, Bud Pots, etc.

ADDRESS **PITTSBURGH CLAY MF'G CO., New Brighton, Pa.**

Mention American Florist.

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., = NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

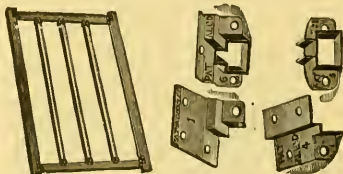
MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

Mention American Florist.



**GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.**
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

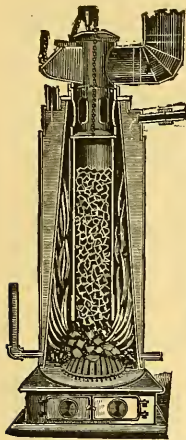
Write for prices.

**THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.**

J. C. VAUGHAN, Agent for Chicago and New York.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

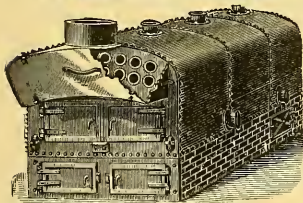


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

Mention American Florist.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist.

**HERE WE ARE
AGAIN.**



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.
PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

Clear Cypress,
from bottom gutter up
is my specialty.

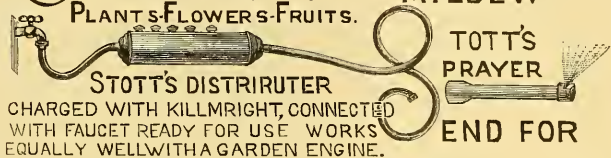
**Lyman Felheim,
ERIE, PA.**



**GREENHOUSE HEATING
AND VENTILATING.**
Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
Send for Catalogue.

STOTT'S SYSTEM OF PRAYING KILLS, INSECTS AND MILDREW
PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRIUTER
CHARGED WITH KILLMRIGHT, CONNECTED
WITH FAUCET READY FOR USE WORKS
EQUALLY WELL WITH A GARDEN ENGINE.



CELL "A" CONTAINS THE KILLMRIGHT

TOTT'S PRAYER
END FOR
CIRCULAR AND
TESTIMONIALS.

**STOTT GARDEN IMPLEMENT
COMPANY**
136 LIBERTY ST. NEW YORK.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS
FOR GREENHOUSES.

Write for latest prices.

FIRST-CLASS CERTIFICATE OF MERIT.

**PERFECT
DRAINAGE**

BENCH TILE

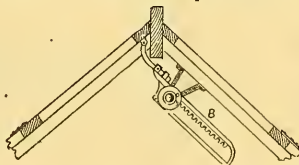
Used by all the leading
Growers and Horti-
cultural Builders.

For testimonials, circulars, etc., address

W. P. WIGHT,

UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

SEE WHAT THE FLORISTS SAY ABOUT
The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived
and has been put in position, and works fine. We
like it the best of anything we have used or seen.
Please send us three or four more order sheets,
for as fast as old houses are repaired or new ones
built we want your "MEAT SAWS."
Some new houses will be built here next year
and we will see to it that you get the order for Ven-
tilating Machines. They are a long way ahead of
the old style. Very truly yours,
HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive
Catalogue.

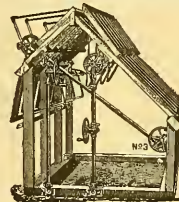
**J. D. CARMODY,
EVANSVILLE, IND.**

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.

DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

ALWAYS mention the AMERICAN FLORIST
when writing to advertisers.

**THE STANDARD Ventilating
Machines**



Received best awards
at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue
and prices.
E. HIPPARD,
Youngstown, O.

Wrought Iron

Pipe,
Fittings,
Valves,
ETC.

**W & C. CO.
LIMITED**

78 JOHN ST., NEW YORK.
WELLS & GOUTAN CO., Ltd.

YOU CAN SAVE MONEY BY
PURCHASING,
AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for
either high or low greenhouses. Send for descrip-
tion and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

Index to Advertisers.

Abel C. G. & Co.	542	547
Adv. Rates, etc.	540	
Andorra Nurseries	547	
Baker P. A.	546	
Baylis Henry W.	541	
Bay State Hdw Co.	551	
Baysondortler H. & Co.	549	
Berger H. H. & Co.	542	
Biane A. & Co.	547	
Bonsell Jos. F. & Sons	541	
Boston Letter Co.	549	
Bracknell & Co.	545	
Brause L. B.	548	
Brauer & Reicher	540	
Burns & Jaynor	541	
Burrow J. G.	546	
Burton John	543	545
Carmine R. W.	540	
Carmody J. D.	551	
Chitty H. E.	544	
Cobbey T. J. & Co.	546	
Cottage Gardens The	544	
Craig Robt.	545	
Crawford M.	546	
Dean James	546	
De Launier Iron Wks.	552	
Dillon J. E.	547	
Dreer H. A.	542	
Edwards Theo.	542	
Elliott W. H.	540	
Elliott Wm & Sons	549	
Ellison Wm.	540	
Faust H. G. & Co.	542	
Felheim Lyman	551	
Ferris M. & Co.	542	
Feld S. B.	543	
Frost James	542	
Gardner J. & Co.	542	
Gibson J. C.	547	
Gonzalez & Co.	547	
Hall Jesse H.	551	
Hancock Geo.	545	
Hart James	541	
Hart Michael A.	541	
Hartford H. E.	540	
Hart Jos.	541	
Herr Albert M.	541	
Hesser W. J.	543	
Hewes A. H. & Co.	550	
Hilfinger Bros.	550	
Hill E. & Co.	550	549
Hopert E.	551	
Hitchings & Co.	552	
Hooker H. M. Co.	551	
Horn Edw. C.	541	
Hulsebosch Bros.	552	
Hunt E. H.	541	
Hunt M. A.	552	
Hunter & Purdy	541	
Irvine John Co.	541	
Jeffords J. E. & Co.	550	
Jennings E. B.	545	
Josston C. H.	548	
Kennelott Bros.	541	
Knopf Oscar & Co.	542	
Koffman E.	546	
Krik W. C.	549	
Kroeschell Bros.	551	
Kuehn C. A.	540	
La Roche & Stahl.	541	
Levi B. B.	545	
Little Geo. W.	545	
Lockland Lumber	545	
Lombard R. T.	541	
Long Dan I. B.	541	

Goodell
Mass. Art. Col. 17th 1892

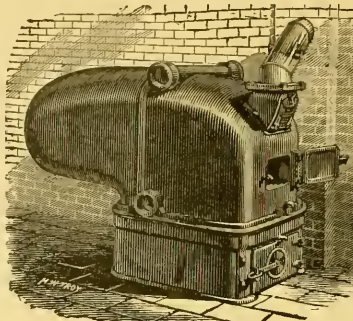
SEATTLE, WASH.—The State Hort. Society held its first meeting December 21-22 in this city. The next meeting will be held at Tacoma in June. C. A. Tenneson, Tacoma, is secretary.

MINNEAPOLIS, MINN.—At the annual meeting of the State Hort. Society, to be held in this city January 10 to 13, moderate prizes are offered for plants and cut flowers, amounting to \$38.

CYPRESS SCREEN HOUSE MATERIAL
HOT BED AND VENTILATING SASH
CLEAR CYPRESS
SASH BARS
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention American Florist.



Mention American Florist.

THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Lockland, O.

The SPENCE HEATER

HOT WATER FOR HEATING

BY HOT WATER CIRCULATION.

NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER

Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?

All of this can be accomplished by using the Improved

RIDER OR ERICSSON HOT-AIR PUMPING ENGINE



DE LA MATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N.Y.
Mention American Florist.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, JANUARY 12, 1893.

No. 241

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C. president; PROF. WM. FRIDLAND, St. Louis, Mo. vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass. secretary; M. A. HUNT, Terre Haute, Ind. treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

CONTENTS.

Roses—Seasonable hints	533
Fern-leaved primulas (with 4 illus.)	534
Primula sinensis	534
Massachusetts Hort. Society	534
Italian fern-leaved primulas (illus.)	535
Fern-leaved primulas (illus.)	536
Progress of fern-leaved primula (illus.) . . .	537
Carnations—Seasonable hints	538
—Shading carnations	538
—White carnation Gov. Russell	538
—Diseased carnations	538
—White carnations for summer blooming . .	538
Philadelphia	538
New York	539
Boston	539
Chicago	539
Milwaukee	539
Toronto	539
Detroit	539
Harrisburg, Pa.	539
Cleveland	539
Cincinnati	539
News notes	539
Another special number	539
The seed trade	539
Patents recently granted	539
Catalogues received	539
Nerve	539
Louisville	539
Packing hot water pipes	539
Zero packing	539
A fifty cent "poem"	539
Upright steam boiler	539

THE EXECUTIVE COMMITTEE of the Society of American Florists holds its annual session next week at St. Louis.

NEXT WEEK comes our special carnation number. It will be even more elaborate than at first intended and the reference list it will contain will be of the greatest practical value. It will be lavishly illustrated and will be a credit to the profession. Advertisements must be received by us not later than January 16 to be in time, and earlier will be better.

IF YOU or your neighbor's name and address has been omitted from, or is incorrectly given in our directory list, please send us by early mail a copy of your or his business card or printed letter-head.

YOU CAN never invest \$2 to better advantage than in a copy of our new trade directory and reference book.



Seasonable Hints.

TEAS.

Now that the days are beginning to lengthen out and we may reasonably expect more sunshine the plants will take somewhat more feeding than formerly, particularly where old plants have been carried over the second year. These, if in shallow benches, with a light mulching as previously advised, will be benefited by a liberal sacking of the soil every 12 or 14 days with weak liquid manure, but avoid making it too strong or the result will be the reverse of satisfactory. To obtain the best results from the use of this it will be best to make it from different materials for each application, if the different materials are at command for doing so. For the first application use sheep manure at the rate of three or four pounds to 50 gallons of water, thoroughly stir it up and allow it to stand 48 hours before using, then if the soil in the benches is a trifle on the dry side give every part of the same a good soaking, afterwards syringe overhead with clear water very lightly for several days till the soil gradually becomes a little solid to the pressure in which state they can have a more liberal amount; but it often happens through January and February that it will take from 10 to 14 days to get the soil sufficiently solid to take another good watering, particularly where syringing overhead is followed upon every fine day. In that case another lot of liquid might be prepared and applied. This should be of different material, say of cow manure. Take a 10 or 11-inch pot full to 50 gallons of water, stir well and allow it to stand 36 to 48 hours, then apply as above, following the same course of treatment as recommended above. For the next take chicken manure in the same proportion as of the sheep manure, etc., after which it would be well to take about equal bulk of fresh horse droppings, as given for cow manure, taking the same means to prepare it.

If this course of treatment can be followed out it will be found that the roses will do much better than when only one sort of manure is used; but to obtain the best results from the same a moderate temperature must always be maintained. Never exceed 58° at night for the roses, 56° is better. By the middle or end of March if the plants are growing freely they will take a fair watering of such ma-

terial every eight or ten days till the end of the season.

For young plants planted the past summer I would not advise applying the liquid till March, unless they have grown extra strong and show indications of needing more food than the mulchings will furnish them, but this is very rarely the case. For those who have not tried the experiment thoroughly for themselves I would advise extra caution in applying it, because there is certainly no injury done by its injudicious application every year than by any other cause.

Keep all weeds and decaying leaves carefully cleaned off, also see that there is no decaying vegetable matter laying under the benches to create fungus and other pests.

Do not forget that roses are like animals, greatly benefited by all the fresh air they can get, but in giving it to them avoid cold draughts or sudden changes of temperature. As soon as the thermometer indicates 68° in the morning start by putting on a crack of air, gradually increasing it with the rising thermometer till in the middle of the day with bright sun it may be allowed to range between 75° and 80°, according to the condition of the atmosphere outside.

HYBRID REMONANTS.

Where these are wanted for early spring use and a continuous supply is desired a few should be brought into a cool or moderately cool house every week, proportionate to the amount required and the stock to draw from. Where they have been prepared as previously advised and kept in cold houses or cellars it will be found that they are very dry at the root and as soon as they are brought into the warmer temperature they must be thoroughly soaked with water. To do this it will take very liberal applications for several consecutive days, and unless the soil is thoroughly moistened they will not break their eyes at all regular; they will, in fact, require to be kept well on the moist side till the buds begin to show color, otherwise the growth will be short, which means very short stems to the flowers and often small and poor colored flowers also. Start them if possible in a temperature of 46° to 48°, gradually increasing the temperature by moving the plants to warmer parts of the house, where only a few are brought in at a time, till the buds are well set, at which period it should never be allowed to fall below 54° at night. Avoid sudden check by falling temperature at all stages of their growth. Syringe freely overhead to moisten every particle of the wood as often as possible from the time they are brought in till the buds begin to open, at which period all overhead moisture must cease and a slightly dryer condition of the roots should be maintained to get the best color in the flowers. When the plants are sufficiently advanced to show

their buds liberal doses of liquid manure may be applied with advantage once a week made as directed for the teas.

For this class of roses the first and primary condition for success is to have good, strong, healthy and well ripened plants; the next is fair and generous treatment after starting them and judicious treatment to finally color them, and, as in all other matters appertaining to our business, practical common sense will lead to success. JOHN N. MAY.

Fern-Leaved Primulas.

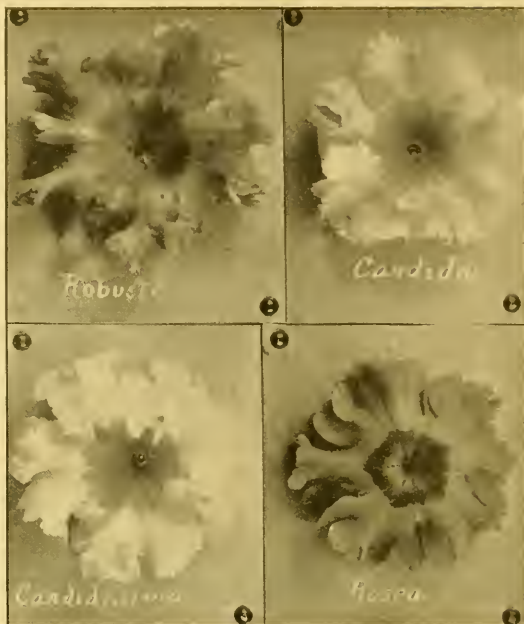
Among the varied forms of *Primula sinensis* none present greater attractions in the way of foliage than does the fern-leaved section. The foliage is very graceful in shape, even in the simplest forms, while in some of the fine improved varieties it rivals the parsley ferns in the crispate undulating margins. Our two groups of plants illustrated present two distinct forms of fern-leaved primulas. One is the ordinary improved type, which while beautifully serrated does not possess a curled margin. The other group is a most remarkable class for which we are indebted to Italian cultivators. The leaves are frilled at the edges in a multitude of crisp undulations, and the flowers are clothed, at the base of the umbel, with a heavy growth of frilled bracts. Much of the foliage is richly colored, some plants being a deep reddish bronze, while others are a soft tender green. The flowers are single, medium size and rather more reflexed than the ordinary type; the colors are some of the softer shades of pale yellow, lilac or white. These plants formed a most interesting section of the grand exhibition at the World's Fair. They were a week or ten days later in blooming than the other types.

The ordinary fern-leaved type contains some semi-double flowers, but not many. Among them are some extremely vivid crimsons and some bright clear shades of cerise, as well as a number of whites, lavenders and mauves. The individual blooms are not, as a rule, quite so large as those of the palmate leaved sorts, but they are produced in great profusion.

The series of leaves illustrated is an admirable object lesson, showing the progression from the original fern-leaved form, small and simply serrated, to the exquisite curled and crested type which shows our highest present development. The individual blooms pictured are of the Italian group and represent four types: candida, white flowers and green foliage; rosea, blush flowers and red foliage; robusta, mauve flowers with yellow eye, very much curled red foliage, umbels thickly clothed with bracts; and candidissima, white flowers and bronzy red leaves. The individuals pictured were all selected by Mr. Thorpe as representatives of the classes to which they belong.

Primula Sinensis.

This grand flowering fragrant and well known race of highly decorative plants is of easy culture provided it gets the proper care. Seed ought to be sown early in February in well drained pots, pans, or boxes. Cover over lightly, placing the same in a cool greenhouse near the glass. If large plants are wanted, seed should be sown early in February; they will become stocky plants to pot off by the end of April, then shifted to the frame ground in May and grown under sashes extra heavy shaded from the sun all summer. They should get their last shift into 6 or 7-inch



INDIVIDUAL FLOWERS (LIFE SIZE) OF PRIMULAS SHOWN ON THE OPPOSITE PAGE.

Robusta: Red mauve with large yellow eye.

Candida: Very pale mauve with large yellow eye.

Candidissima: Pure white with yellow eye.

Rosea: Rosy magenta.

pots and be housed by the middle of September. By flowering time they will be quite large plants, and will require stimulant of guano or animal manure in liquid form, but don't use wood ashes or potash in any way. Plants of the above size are perhaps a little too large for commercial purposes, as the leaves are brittle and hard to pack. For small plants in 4 or 5-inch pots seeds will be in time enough sown late in April. The best material I ever found for growing primroses was a very light yellow loam found in Eastern Massachusetts, at Waltham and Lexington, with not a particle of fibre therein. For those who cannot procure that kind of loam, ordinary fibrous loam with plenty of leaf mould or decayed manure to lighten it up will grow good primroses.

In potting a good method is to keep the ball pretty well down in the flowering pot, so that the plant will not wiggle from side to side when it begins to get to its full size. There is no danger of damping off if not potted too hard, and that a primrose should never be. Therefore a rose sufficient to break the force of water from the hose should be always used, so as not to make holes in the soil of these soft potted plants.

It is a sorry sight to see a plant that had left the greenhouse in perfect condition, arriving at the retail store in the city after being carted over the rough roadway, with every fully expanded flower separated from the plant and lying in the bottom of the box or pan. In England and the continent, florist's gum

is used for adhering the flowers of gloxinias and primulas before they leave the greenhouses and more general satisfaction to both buyer and seller is the result. Seed of primulas ought to be sown as fresh as can be procured, as the seeds deteriorate very fast, often before they have left the seedstore. Some years ago I bought 4 packages of a grand blue primula sent out by a European firm and distributed among the local seedsmen in sealed packages; there were 17 seeds in each package. I sowed each package separately, with the result that 2 seeds germinated in each pot; the others never did. I had eight plants at 50 cents a seed of a pretty fair bluish lilac primrose. I asked our seedsmen why the original firm did not put two seeds instead of seventeen, with fifteen non-germinating ones, I would have bought them just the same; his reply was, most people wanted bulk and they would not buy a paper with only two seeds in it.

Among the best varieties to grow of well known standard kinds are Russel's pyramidal red and white, Chiswick red, fimbriata rubra, alba, and alba magnifica. DAVID ALLAN.

Massachusetts Horticultural Society.

The program of meetings for discussion during the season of 1893 has been published. The meetings will be held at Horticultural Hall, Boston, on Saturdays at 11 o'clock a. m.

The list of subjects is as follows:



GROUP OF ITALIAN FERN-LEAVED PRIMULAS.

1. *Candida*: Foliage light green.2. *Rosea*: Foliage bronze.3. *Robusta*: Foliage red bronze.4. *Candidissima*: Foliage very deep red bronze.

January 7—Annual meeting and addresses by the retiring and incoming presidents.

January 14—Village improvements. By B. G. Northrop, LL. D., Clinton, Ct.

January 21—Landscape gardening. By Warren H. Manning, Brookline.

January 28—Historical sketch of English horticulture. By Samuel Henshaw, West New Brighton, Staten Island, N. Y.

February 4—The progress of horticultural societies. By Hon. Henry L. Pai-

ker, President of the Worcester County Horticultural Society.

February 11—Fungi, the latest discoveries relating to their connection with horticulture. By B. T. Galloway, Chief of the Division of Vegetable Pathology, United States Department of Agriculture, Washington, D. C. [This lecture is delivered on the John Lewis Russell foundation.]

February 18—Wild flowers and ferns. By Mrs. P. D. Richards, West Medford.

February 25—Carnations and their culture. By Richard T. Lombard, Wayland, Mass.

March 4—Poisonous plants. By Prof. William P. Brooks, Massachusetts Agricultural College, Amherst.

March 11—Aquatic plants. By L. W. Goodell, Dwight.

March 18—Tuberous rooted begonias. By John G. Barker, Supt. of Forest Hills Cemetery, Boston.

March 25—Rational methods in the



GROUP OF FERN-LEAVED PRIMULAS.

1. Semi-double. Magenta. 2. Semi double. White. 3. Single. Lilac with yellow eye. 4. Auricula type. Deep rose. 5. Type with very deeply serrated leaves. Semi-double. Bright rosy salmon. 6. Single. Large white with yellow eye 7. Single. Medium sized white with yell eye.

treatment of forests in New England. By J. B. Harrison, Secretary of the New Hampshire Forestry Commission, Franklin Falls, N. H.

The schedule of prizes offered for the year 1893 is also ready. The amounts appropriated for prizes and gratuities are: For plants \$2,050, for flowers \$2,400, for fruits \$1,800, for vegetables \$1,100, and for gardens, greenhouses, etc. \$500.

PROSPECTIVE PRIZES.

For objects originated subsequent to 1885, and which, after a trialsatisfactory to the several committees, shall be deemed superior, in quality or some other characteristic, to any now extant, and worthy of general cultivation. All awards of prospective prizes to be recommended to the society for approval on the first Saturday in December of each year, and to be made by the committees subject to such approval. These prizes can be awarded only to the originators of the productions for which they are offered. Persons wishing to compete for these prizes must give notice in writing to the chairman of the respective committees.

SPECIAL PRIZE BENJ. B. DAVIS FUND.

For the best seedling native grape, adapted to general cultivation in Massachusetts, introduced since 1885, to be awarded not earlier than the year 1890 \$100 00

REGULAR PRIZES.

Fruits.

For the best seedling pear \$50 00
For the best seedling apple 60 00

For the best seedling hardy grape 60 00
For the best seedling cherry 40 00
For the best seedling strawberry 30 00
For the best seedling raspberry 40 00
For the best other seedling fruit 10 00

Flowers.

For the best seedling rose 50 00
For the best seedling camellia 50 00
For the best Azalea Indica 50 00
For the best seedling tree peony 50 00
For the best seedling herbaceous peony 50 00
For the best seedling hardy rhododendron 50 00
For the best seedling hardy azalea 50 00
For the best seedling chrysanthemum 50 00
For the best seedling single flowered tuberous rooted begonia 50 00
For the best other seedling flowering or foliage plant 50 00

Vegetables.

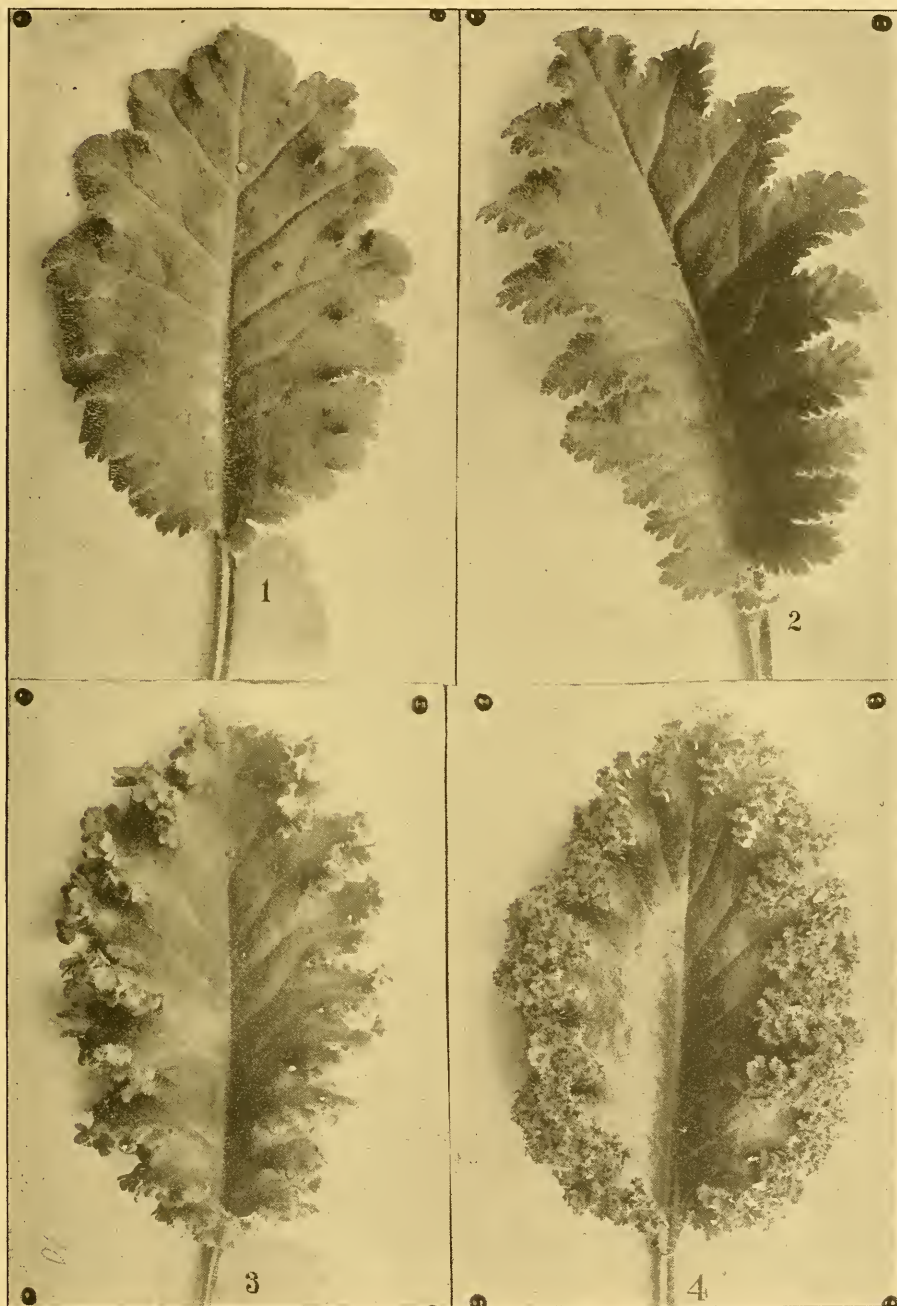
For the best seedling early potato 30 00
For the best seedling late potato 30 00
For the best other seedling vegetable 30 00

The opening meeting of the society for the year 1893 was held in lower Horticultural Hall, on Saturday, January 7, a large audience being present.

The retiring president, Mr. W. H. Spooner, briefly expressed his gratitude to the members for their cordial support during the three years of his administration and congratulated the society upon the great prosperity which it is now enjoying, being practically out of debt, the building in excellent condition, the halls greatly improved, the meetings more largely attended than ever before and the exhibitions constantly gaining in excellence and popularity. He then introduced his successor, the president-elect, Mr. N. T. Kidder, who proceeded to

deliver his address, which was short, practical and pointed and created a most favorable impression. He alluded to the frequent calls from all the committees for more room, the inadequate facilities provided for the exhibitions, the rapid increase in the number of volumes in the library and recommended that the executive and finance committees bear in mind the imperative necessity of some provision for enlarged accommodations for all the departments in the near future. The needs of the library were especially urged, the additional space recently added by the construction of galleries having proved but a temporary relief and the protection against fire being but partial. He also recommended that provision be made whereby more attention shall be given to the subject of entomology, whereby active investigation and study of garden and greenhouse pests should be prosecuted and experiments be made with the various insecticides, etc. Careful labelling of plants and flowers at the exhibitions should be insisted upon, and the introduction of special features should be encouraged with the view to increase the attendance at exhibitions.

Upon the conclusion of the president's address Mr. Appleton reported for the committee on insect pests and read a bill which had been drawn up and which it was proposed to advocate for passage by the State Legislature. The act provides for the destruction by city or town authorities of insect pests on public roads



PROGRESS OF THE FERN-LEAVED PRIMULA FROM THE ORIGINAL TO THE CURLED ITALIAN TYPE.
LEAVES ARE SHOWN LIFE SIZE.

or private grounds where the owners of the latter neglect to attend to it, the expense of the same to be collected from adjacent land owners. After a discussion as to the wisdom of making the terms of the bill optional or obligatory the report was accepted and adopted and the committee instructed to urge its passage by the legislature.



Seasonable Hints.

The interchange and distribution of varieties is done mainly by rooted cuttings, thousands being distributed to all parts of the country during the winter and spring months. The proper packing of these rooted cuttings is a point not to be overlooked. As soon as they are well rooted they are ready for shipment. They should be handled with care as the roots are very liable to drop off by rough usage.

They are usually made up in little bundles of 25, which make a convenient size for packing. All lightly rooted and poor cuttings are of course thrown out. There is nothing better than newspaper for wrapping material, but if to go on a long journey paraffine paper should be placed on the outside. Sphagnum moss is the packing material mostly used and this is well dampened and a good bulk of it used about the cuttings. If the moss is made too wet they would be liable to heat if packed in large lots. It is not necessary to remove the sand for express shipments, unless for long distances to reduce weight. For mailing they should be well washed by dipping in water, less moss may be used and the waxed paper used for wrapping, being lighter. Label each variety carefully. For mail orders paper labels are the best. The shipping boxes must be well lined with paper and in severe weather a double lining is necessary with sawdust or some such material between. Heavy felt paper is largely used for this purpose. The bundles are to be well packed in the box so that the contents will not shift about in handling. If not enough to fill the box use excelsior or other packing for the balance and nail the lid on securely. Mark your labels legibly and place the address also on the box cover with a heavy pencil. This insures proper delivery in case the label is lost. Do not forget to place upon the box the legend: "Plants, Keep from Frost and Stove Heat," or some such phrase. In cold weather the first thing an express agent does on receiving a box of plants is to place it near the stove, if he knows no better. The little hint mentioned may save the plants from disaster. Many shippers use a label printed in green similar to the red one used for cut flowers, but with the words "Perishable Plants" across the leaf. If the express companies were properly instructed in regard to these labels less loss would occur in the handling of our goods.

In the shipment of plants from pots pretty much the same routine is followed. Two plants are however, sufficient to place in a bundle. Take the superfluous soil from the tops of balls, which should be moderately wet. Plenty of moss should be used, not forgetting to put some between the plants as they are easier sep-

arated when unpacked. In the mailing of plants the soil is washed from the roots, when they can be handled as rooted cuttings. W. R. SHELMIRE.
Avondale, Pa.

Shading Carnations.

The plan suggested by Mr. Shelmire for shading the cutting bench (light muslin on lath close above the young stock) has I think under some conditions quite serious drawbacks, the tendency being to smother the cuttings unless closely watched, particularly on sunny days late in the season. I have seen heavy losses under this arrangement where I thought the close covering was the most rational explanation of the cause.

Again; unless the muslin is put on in short lengths a considerable portion of the bed has to be uncovered to examine the more central parts.

In an east and west house the side benches are conveniently shaded, the south bench by means of light muslin screens 3x6-feet, close up against the glass. The north bench may be readily converted into a "north side propagating house" by using any convenient shading material suspended from the rafters to the front edge of the bench. Curtains of desirable length on rollers would be most convenient, but simply tacking to the rafters or suspending on wires is more easily arranged.

With such shading the cuttings receive full north light at all times and sunlight can be applied with little trouble at any time when desired—any portion of the bench may be examined without inconvenience and there is free circulation of air at all times. I have never used north and south houses for propagating but if obliged to would prefer a shading that would admit plenty of air at all times.

C. J. PENNOCK.

White Carnation "Gov. Russell."

This new candidate for popularity originated with Mr. M. M. Cummings of Reading, Mass., in 1888, and has been grown by him for the past 4 years. The flowers are of large size, pure white, very fragrant and borne on stems 12 to 15 inches long. It is said to be strong and robust, and free from disease. A vase of the cut blooms received honorable mention at the recent chrysanthemum exhibition of the Massachusetts Horticultural Society.

Diseased Carnations.

ED. AM. FLORIST:—Enclosed find specimen of Golden Triumph carnation purchased from a Massachusetts grower. When received it was perfectly clean; two weeks after planting rust made its appearance (like your previous correspondent, I had no rust on any of my plants). I sent specimen to Prof. Halsted. I have used Fostite on them and find the young wood is coming clean. Should it fail to clean them I will throw them out.

Tenafly, N. J. W. DAVISON.
[Specimens of carnation foliage received was very badly infected with both "rust" and "spot."—ED.]

White Carnation for Summer Blooming.

If "Grower" (page 513) will try carnation Mrs. Fisher for out of door blooming I think it will be found very satisfactory. It has so proved in this locality and in some parts of New England also. For this purpose they should be propagated early and kept well topped back until

considerable low growth is induced. Cuttings struck in December, well hardened off and set out of doors by April 15, should commence blooming in June.
Kennett Square, Pa. C. J. PENNOCK.

Philadelphia.

The January meeting of the Florists Club was very well attended. Mr. Wm. E. Meehan's lecture on the flora and the people of North Greenland was the principal attraction, and those who were fortunate enough to be present will remember the occasion for a long time. On the president's desk stood a vase of superb mignonette grown by Dailedoude Brothers of Flatbush; the spikes were grand and attracted a great deal of attention. There was also a fine bunch of Edna Craig carnation. Mr. Craig is justly proud of this fine variety.

The following gentlemen were elected to membership: Henry S. Heacock, Walter Cliffe, David Wallace, James Devine and Edward Reid.

The club room committee reported progress in the bowling contest and after a discussion which was memorable on account of bringing Capt. Anderson to his feet, the whole matter was referred to the committee for adjustment. A bowling club will now be organized and all matters pertaining to games, tournaments, &c., will be settled among themselves.

Mr. Meehan, who was the botanist of the Peary relief expedition, now had the lights turned out and with lantern views thrown on a canvas took the club on an imaginary trip to Greenland, his description of the people and the country was very interesting. He stated that he saw large tracts of miniature forests, the trees being only some six inches to a foot in height. There were also a great many beautiful flowers to admire, some varieties of poppy being very plentiful. Many kinds of mosses were to be found growing right on the ice, and in some places springing out of the banks of moss were plants in full flower growing and blooming on the ice just as they do on our own hillsides. At the close of his lecture Mr. Meehan was greeted with rounds of applause and received the thanks of the club by a unanimous vote.

Business has been quiet the past week and prices have fallen a little; carnations are now 2 to 2½ and sell better than any other flower. Perles, Contiers, 6, Cusins 8 to 10, Meteors 15, Mermets, Brides 10 to 12, La France 12 to 15, Beauties 35 to 75, Laings 25 to 50. Mr. Heacock has a house of Brunners in, the flowers of which are fine; they are readily sold for 75.

Tulips are now commencing to look like something and sell for 4 to 6. Freesia 2, Romans 3 for the best. Evans Brothers claim to have the noblest Romans of them all and their stock is certainly fine. The mums are still with us; Lukens of Burlington is bringing in some bunches of Christmas Eve which are really as fine as any seen in 1892.

John Westcott at his Laurel Hill Nurseries claims to have a monopoly of the camellia trade having the only house of these plants about Philadelphia. All the camellia seems to be used for now is to be aired on laurel branches in large decorations. Mr. Westcott has also a plant of Bignonia venusta which almost entirely fills one of his houses; it is a sight, covered with its great clusters of orange colored blossoms.

James Browley is erecting a store and greenhouse corner Chelton and Wissahickon Avenues, Germantown.

The recent cold spell of weather which

by the way is with us yet, has compelled the florists to look up some device other than hot water for heating their wagons. The new carbonate stove, not much larger than a tinker's charcoal pot for heating his irons, seems to be the thing and quite a number of the florists have purchased them the past month, all unite in saying they are much pleased with them. The stove costs \$6, and the fuel 5 cents a pound, it does not cost more than 10 cents to fire up to last for 3 to 4 hours. There is no gas or smoke, the fuel burning like charcoal and requires little or no attention. K.

New York.

There was a full attendance at the January meeting of the New York Florists' Club. Retiring president Dean made a few remarks thanking the members for courtesies during the past year and congratulating the club upon the progress made during that time. A year ago the club was a thousand dollars in debt and now it has a thousand dollars in the treasury and all debts have been paid. He then introduced president elect Manda who was received with applause and who made an address complimentary to the retiring officers, and especially to the exhibition committee for the work done during the past year.

Secretary Young read a proposition from the Madison Square Garden Co., proposing a new arrangement for adjusting the amount of the Club's pecuniary interest in the exhibition of 1893. After much discussion the whole matter was referred to the existing committee on exhibition with instructions to confer with the Madison Square Garden Co., and make best terms possible.

The club then adjourned to The Arena where the annual dinner was waiting and to which about 80 members sat down. The room had been beautifully decorated by florists Scallen and Hafner. Smilax was contributed by Koffman, plants by Pitcher & Manda, roses by Asmus, Taylor and others, and there were vases of fine carnations from Dorner, the tables being elegantly adorned.

After the inner man was satisfied a feast of reason and flow of soul was inaugurated by the president, who introduced Mr. Weathered as master of ceremonies and wisdom. Wit and song followed in rapid succession. Mr. Taylor made an eloquent response to the toast "our night," Mr. Dean replied for the Empire States horticultural interests at Chicago; Robert C. Patterson, Pittsburg, for kindred societies, and proposed the health of the New York Florists' Club. Mr. De la Mare responded for the horticultural press; Ernst Asmus for the Madison Square Garden exhibition committee; Mr. May for the New York Club; Lawrence Hafner for the retail and John Young for the wholesale florists. Howard Green supplied humor and William Plumb and others entertained with songs.

Letters from Messrs. Lonsdale, Thorpe, Michel, Pennock, Ewing, C. A. Green and others representing the various clubs and societies throughout the country, were read.

The whole affair was the most successful in the history of the club.

Boston.

Since the advent of the New Year the cut flower trade has been dull. This is in accordance with previous years' experience, though, and is not unexpected. The price of roses has held up fairly well, not

on account of any special demand, but because they are in short crop at present, and are not plenty. Carnations are loaded up everywhere. All colors are badly off, but white is the worst, the market being completely snowed under by them. Bulbous stock goes slowly still, although Roman hyacinths move better than they did at Christmas, on account of shortened supply, and lily of the valley of best quality being scarce it also goes off well. Crops from this season's pips are still "white livered" and sickly looking and the flowers are hard to dispose of. Violets are greatly improved in quality and sell at from \$1 to \$1.75 per hundred, the manner in which they are "put up" having much to do with the price realized. Bunching violets for this market is getting to be quite an art, and the buncher has nearly as much responsibility on his shoulders as the grower, for no matter how good the individual blooms may be, unless they are put up properly they are sold with difficulty. Freesia is getting plenty. It brings \$2 per hundred. Harrisii lilies and callas still hold out at \$2 per dozen. There are no tulips in this market yet, nor any double daffodils. Single daffodils are plenty and sell slowly, but not so slowly as the campaneolles which as usual nobody seems to want.

At the January meeting of the Gardeners' and Florists' Club the new officers for 1893 were installed, Jackson Dawson, president; Lucius H. Foster, secretary, and Edward Hatch, treasurer. All made neat little speeches of acceptance, Mr. Hatch waxing eloquent and pathetic by turns at he told the story of his earnest but fruitless efforts to procure bondsmen as required by the by-laws.

The books were audited and showed a gratifying balance in the treasury and votes of thanks were tendered to the retiring officers. Mr. P. Welch reported on behalf of the committee on annual dinner that this happy event would take place at the American House on Thursday evening, January 26, at 6 o'clock. The price of tickets is \$2, and they can be procured at any of the wholesale or retail florist or seed establishments in Boston. Mr. Edward Hatch is chairman of the decoration committee. He asserts that the distinguishing feature of most florists' banquets in Boston in the past has been the lack of floral adornments, but he proposes to see that this part of the program is properly attended to this time.

Messrs. Robt. Farquhar, J. H. Morton, Lawrence Cotter and W. J. Stewart were appointed the committee on essays and discussion for the ensuing year.

Chicago.

At the quarterly meeting of the Horticultural Society of Chicago, held at the Sherman House last Saturday afternoon, five applicants were elected to membership. Treasurer Seaverns having sent in his resignation, Mr. Melville E. Stone was elected to fill the vacancy. The secretary's report covered the details of the last exhibition, which have already been given in these columns. The society is now in good financial condition. A committee was appointed to formulate needed amendments to the constitution and by-laws, another committee was requested to prepare a schedule of prizes for chrysanthemum plants and flowers for the next exhibition. The executive committee was requested to prepare and mail the schedule for next year's exhibition at as early a date as possible. On the table was a splendid collection of cyclamen

flowers brought to the meeting by Mr. Thorpe and which he pronounced the finest lot ever shown. They were of immense size and most beautiful colors and markings. They were cut from the plants grown from seed entered for competition at the World's Fair.

The flower market continues quite brisk; it has held up well ever since the holidays. Flowers are not plentiful, the supply only just meets the demand. Roses are still small, though the color is good. Among red roses Papa Gontier is a leading favorite. Among carnations we still see few fancies except Daybreak, though a few Buttercup have been in of late; they sell very quickly. Violets are more plentiful, but the demand is so great that prices continue to hold up. In bulb stuff Romans are still in over-supply, and there is a great deal of valley now coming in. Paper white narcissus is plentiful, but we have not yet noted any trumpet major. Red tulips have been coming in for several weeks, but they sold very poorly. The first pink and yellow tulips came in this week; the yellow were very fine, and the pink, though rather deficient in color, were good, and both sold very well. Experience shows that when any profit is realized from tulips it is in the fancy colors. The short stemmed red ones which come in first rarely pay—people don't want them. Callas are still scarce.

L. Allegretti of San Francisco has opened a retail store in the Masonic Temple, for the sale of Californian flowers, shipped under the influence of his preservative process, which was noticed in the FLORIST a month or two ago. The flowers have a perfectly fresh appearance, and seem to last as well after being removed from the preservative process as if freshly gathered.

Milwaukee.

The holiday trade here this season was as usual, of little benefit, if any, to the retail florist. Regular flower buyers, as a rule, shun the florist on these days. Orders come in, most of them the last day, so that the florist who purchases extra stock in anticipation of holiday trade is sure of a big bill to pay and knows very little of what will turn up to enable him to pay it. Those in the retail business of limited experience laid in an extra supply and came very near being caught, others who have learned to be careful did not purchase an extra flowers up to December 23 or 24, preferring to leave them on the wholesale dealers' hands until they were sure of sales. I do not think that the Christmas trade in flowers was as large as the Thanksgiving trade, and New Years was a fair business for Sunday. One or two who kept their store open all day Sunday managed to sell off what they were stuck with on Saturday, but it was to Tom, Dick and Harry, and not their regular trade. It looks as though the flower buying public had determined to boycott the florists during the holidays. The stock was, however, sold out in small lots. No baskets or design work, all loose flowers. The holly trade was very large and all plants that were pretty sold well, but the supply was limited. Customers are taking more notice of carnations now than common; they commence to learn the names of different varieties. Some choice stevia attracted attention. Romans and narcissus were a trifle overdone. A limited number of auratum lilies and Harrisii were taken up quick. Lily of the valley is quite popular. Orchids do not go over the counter very well, but are sought for

in decorations to some extent. The use of asparagus vine has increased quite largely since last year. American Beauty roses are in demand daily, some few retailing for \$1.50. Trumpet major made its appearance in one store and went off well. The demand for ferns has increased, in fact all foliage is better appreciated now. Primroses, cyclamen and small arceas or kentias sell well, but the latania does not take so well. C. B. W.

Toronto.

There is a lull after the rush of Christmas and New Years. The rich fare on which folks have been living for the last week or two has made them somewhat dyspeptic and they probably think that flowers would not harmonize well with the color of their countenances. The fine bracing weather we are having now though ought soon to bring them back to their normal state of health, there has been a good fall of snow and the thermometer hovers pretty close to zero so that sleighing, coasting, tobogganing, curling and other winter sports are in full swing.

The new executive committee of the G. and F. Association met last week and arranged for a series of essays and discussions for the regular meetings for some time to come, they also discussed various other matters connected with the welfare of the association.

World's Fair matters are at a standstill just now, waiting for the Ontario Commissioner to appoint the superintendent.

The secretary of the association received an invitation for himself and fellow members to attend the fifth annual dinner of the New York Club. Many thanks, very sorry the distance prevents us from attending. Some of these days, though, the association will accept "en masse," and I dare say Secretary John Young would be equal to the emergency if a horde of hungry Canadians were to swoop down on him on one of these occasions. E.

Detroit.

Trade for Christmas is on the increase; Detroit always shows well, but never has it had such a rush. So many receptions for the holiday weeks help to make it worse as to rush. Stuff very scarce; demand for holly increases, as well for nice plants, besides the regulation solanum, primroses, azaleas, we have sold some 250 cyclamens, ranging in price from \$1.25 to \$5 each. It seems as if every florist could sell some of these plants, yet so few have good stuff at that time.

Prices all range well with us, same as other cities; \$18 per dozen for Beauties is as much as our conscience will allow us to ask. New Years is as flat as a pan cake; if it were not that the week previous was such a hummer stuff at present would be very plenty, as it is stuff is very scarce.

PHILIP BREITMEYER.

Harrisburg, Pa.

A florists' club for Harrisburg and vicinity was organized on Monday evening, January 2, by the election of Samuel Parker as president; Andrew Gresson, vice-president; Logan E. McClintock, as secretary, and John S. Fraser, as treasurer. The club is to include not only florists, but gardeners and any one interested in horticulture, and will probably hold meet-

ings once a month. Nothing of the kind has ever been attempted before in this vicinity, and it is confidently hoped that a strong and enduring organization will be perfected. The next meeting will be held January 16, at the office of McClintock's greenhouses, South Cameron St.

Cleveland.

At the holidays there was more call for choice cut flowers and well grown plants than ever before. Nearly all the florists report increased sales over last year, the only exceptions being those who were obliged to buy all their flowers, as the wholesale prices were entirely too high, especially so for poor roses which were shipped in here from the east. It does seem as though the grower has all the profits at Christmas, but the retailer evens up matters at Easter.

The weather was very cold on the 24th, 25th and 26th, so it was a difficult matter to deliver plants with safety. Several loads of fine palms were caught by the frost. Nearly all complain of flowers being frozen that were shipped in from outside points.

Roses, carnations and violets were most called for. There were not enough of the latter to go around, but there were some exceptionally fine ones offered which brought gift edged prices. There was more demand for orchids than ever before. Our better class know their value, but the occasional flower buyer does not know an orchid from an orchard.

L. F. D.

Cincinnati.

Again the holiday season is past and once more we are settled down to regular business. Our cut for the week preceding Christmas was not a large one, but quality good and prices were high. The volume of trade among our retail florists was rather better than last year. C. L. Mitchell, the F. T. McFadden Co., and J. A. Peterson have been and are yet cutting some very handsome Beauties, which sold readily at 75 cents to \$1 each wholesale. There was a fair supply of carnations, trumpet major narcissus, lily of the valley, callas, and paper white narcissus. Romans with us like all our sister cities were a glut on the market. One thing we can say for our growers is that they did not "salt," but brought their cut in just as fast as they were ready. Trade at the present writing seems dull and the growers are complaining about the severe cold weather we are having; it makes the coal pile sick with very small returns. This morning for the first time in many years the Ohio River is frozen over, and the thermometer still hovering around zero. We held our annual meeting and election of officers for 1893 of the Cincinnati Florist Society January 7.

E. G. GILLETTE.

New Notes.

LITTLETON, N. H.—A. R. Smith added a new house 11x108 last fall.

COBLESKILL, N. Y.—During the past season Chas. Limmer has added a new house 18½x100.

LITTLE ROCK, ARK.—Christmas trade was as good as usual, the demand being almost entirely for loose flowers.

EVANSTON, ILL.—Mathias Weiland has opened a flower store at 403 Davis street, and reports brisk sales in his section.

COLUMBUS, IND.—Christmas trade here was not as good as last year, while the New Year's trade was slightly better.

ST. CATHERINES, ONT.—James Dunlop has lost two houses by fire, one 50x12, the other 16x60, the insurance covering but a small part of the loss.

MINNEAPOLIS, MINN.—We have had a fair holiday trade, mostly cut flowers. Few plants; flowers generally quite scarce and not enough for the demand.

MILWAUKEE, WIS.—Mr. Fred Quickert, for the past three years gardener at the Oak Grove Greenhouses, La Crosse, is now foreman of the P. J. Deuster greenhouses, opposite Calvary Cemetery.

TOLEDO, O.—Our holiday trade this year showed an increase of at least 10 to 15 per cent over last year. Very good plant trade in azaleas, primulas, cinerarias, cyclamens and some palms. In cut flowers quite a few baskets, but principally bouquets or bunches and boxes of loose flowers. Trade has been quite brisk to date.

BETHLEHEM, PA.—Flowers were short for Christmas. We might have sold a great many more, but could not handle them, prices being too high. We have had so much cloudy weather that it was almost impossible to get any flowers at all. As a rule they were not first class. There seems to be an increase in the sale of ferns and fern dishes.

PATERSON, N. J.—Holiday business with me was good, fully up to the best average. Demand for palms in pots seems to be on the increase. Orders ahead took nearly everything in the way of cut flowers. Carnations have held their own and a little more. Their popularity is decidedly growing. New Years business has dwindled to a mere shadow of its former proportions.

SPRINGFIELD, ILL.—The holiday trade shows an advance on previous years. Good demand for hyacinths, roses, carnations, narcissus, etc., with plenty of stock to fill orders from. A few Harrisii were to be had. Growers and commission houses handle Christmas greens here. The florists are not in it. December weather dark and cloudy. A few days of sunshine the week before Christmas helped us out. Considerable sale for house plants.

DALLAS, TEX.—Christmas trade was very good, but owing to hard times it was very difficult to get good prices. The florists here all had to buy some flowers from St. Louis, in many cases giving \$3 a dozen for roses, which they had to sell again at \$3.50 to \$4.50 a dozen, and then the customers thought they were being robbed. There was a good demand for holly and Christmas trees. The Texas Seed & Floral Co. is about to move into a handsome new store with greenhouse attached. They have just built a new house 20x100 feet. A good many small florists are starting in business here. So far the winter has been mild.

THAT excellent gardening journal *Gardening*, semi-monthly, price \$1 a year, and the *AMERICAN FLORIST*, together to one address for \$1.75. Address orders to the American Florist Co.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ANOTHER SPECIAL NUMBER.

Next week we shall take much pleasure in presenting to our readers another grand special number. It will be devoted to the carnation. The carnation has been making rapid strides in recent years. Some of our brainiest men are now giving their whole time and thought to its improvement, and fashion has accepted it as a favorite second only to the rose. The Florist is glad to take due cognizance of this fact and proposes to give the "Divine Flower" that recognition and prominence to which its present position entitles it. The reading columns will comprise valuable contributions from our most successful practical carnationists and these articles will be beautifully illustrated. We shall spare no pains to make this the most notable and our successful series of special numbers and a full and reliable record of the achievements of our carnation growers up to date. Advertisers have learned that no medium for reaching the whole trade has ever been given them equal to that furnished in these special numbers of the AMERICAN FLORIST. This one will be no exception to the rule. Those having carnations to offer or new seedlings to introduce are particularly reminded of the rare opportunity here offered. No advance in price from our regular advertising rates.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

CUT FLOWER QUOTATIONS.—In our last issue it should have been stated that the quotations from New York and Boston were the prices that prevailed at New Years.

IF YOU NEED ANY

Cape Flowers, Immortelles, Grasses, plain or fancy Baskets, Metal Wreaths, Letters, Doves, or any other thing in the Florists' supply line, mail us your order.

REMEMBER WE ARE THE

Leading Manufacturers of Wheat Sheaves and Baskets, and Importers of Florists' Supplies.

Catalogue on application . . .

ERNEST KAUFMANN & CO.,

113 N. 4th Street, PHILADELPHIA, PA.



Fancy.

Dagger.

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

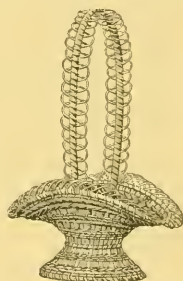
L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.
10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.**OUR SPECIALTY.**

S

For Florists, Plain and Fancy; also a full line of

FLORISTS' & SUPPLIES.

At Wholesale only. Send for List.

August Rölker & Sons

New York,

P. O. Station E. 136 & 138 W. 24th Street.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

59 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,**FLORISTS' • SUPPLIES,**

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

**WHITE DOVES**

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

ROOTED CUTTINGS.

CARNATIONS, COLEUS, CHRYSANTHEMUMS
and miscellaneous bedding plants cheap
for cash. Send for Price List.

J. J. CONNELLY, Bryn Mawr, Pa.**4,000,000****Hardy Evergreen Cut Ferns**

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.
In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

HARDY CUT FERNS?

Oh Yes, over

5,000,000.

I can supply you the year round with
All goods. Also new Bouquet Green,
Laurel festooning, etc.

H. E. HARTFORD,

18 Chapman Place, BOSTON, MASS.

Mention American Florist.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST., ST. LOUIS, MO.

H. L. SUNDERBRUCH,**WHOLESALE FLORIST**

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,**COMMISSION • FLORIST,**

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,**LONG'S FLORISTS' PHOTOGRAPHS.**

Lists, Terms, &c. on application.

Cut Flowers Wanted.

Consignments of Roses and Carnations
wanted from growers of fine stock.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.: Sunday 2 P. M.

NILES CENTER FLORAL CO.
 Incorporated.
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 and Dealers in **FLORISTS' SUPPLIES.**
 CHAS. W. MEKELLAR, Mgr.
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

M. OLSON, —*
Wholesale FLORIST,
 66 WABASH AVENUE,
 CHICAGO, ILL.
 Telephones 4786.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
PHILADELPHIA.
 Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th ST.,
 Philadelphia, Pa.

SMITH, The Florist,
 GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL.
 77 S. 7th Street, MINNEAPOLIS, MINN.

Wholesale Market.

Cut Flowers.

NEW YORK, Jan. 10.	
Roses, Bon Silene.....	2.00
" Goutier.....	3.00 @ 5.00
" Perles.....	2.00 @ 5.00
" Niphotos.....	2.00 @ 5.00
" Mermel, Bride, Cuth, Wakeville.....	5.00 @ 10.00
" Hoste.....	3.00 @ 5.00
" Bennett.....	1.00 @ 2.00
" La France, Albany.....	5.00 @ 12.00
" Beauty.....	15.00 @ 100.00
Hybrids.....	2.00
Carnations.....	1.00 @ 2.50
Mignonette.....	2.00 @ 5.00
Romans, narcissus.....	2.00 @ 5.00
Valley.....	2.00 @ 6.00
Harris.....	10.00 @ 12.00
Violets.....	1.00 @ 2.00
Lilac (bunch).....	1.00 @ 1.50
Adiantum.....	1.00 @ 2.00
Snailx.....	20.00
BOSTON, Jan. 10.	
Roses, Niphotos, Goutier.....	6.00 @ 8.00
" Perle, Silene, Wood.....	2.00 @ 4.00
" Bride, Mermel.....	10.00 @ 15.00
" Meteor.....	20.00
" Beauty.....	50.00 @ 75.00
Carnations.....	1.00 @ 2.00
Violets.....	5.00 @ 6.00
Hyacinths, flatrodis.....	3.00 @ 4.00
Valley.....	1.00 @ 1.75
Mignonette.....	2.00 @ 3.00
Callas, Harris.....	15.00 @ 17.00
Stelia, pavia.....	1.00 @ 2.00
Freesia.....	2.00
Snailx.....	12.50
Adiantum.....	1.00
Asparagus.....	50.00

PHILADELPHIA, Jan. 10.	
Roses, Perles, Goutier.....	6.00
" Perle.....	6.00 @ 8.00
" Meteor.....	15.00
" Mermel, Bride.....	10.00 @ 12.00
" La France.....	10.00 @ 15.00
" Beauty.....	35.00 @ 15.00
" Laine.....	25.00 @ 40.00
Tulips.....	4.00 @ 6.00
Freesia.....	2.00
Romans.....	2.00
Carnations.....	2.00
CHICAGO, Jan. 10.	
Roses, Perle, Niphotos, Goutier.....	4.00 @ 5.00
" Mermel, La France, Albany.....	6.00 @ 7.00
" Bride, Wootton, Bennett.....	6.00 @ 8.00
" Beauty.....	20.00 @ 25.00
" Beauty.....	1.00 @ 2.00
Carnations.....	3.00
Callas, Harris.....	16.00 @ 20.00
Romans Valley.....	2.00 @ 4.00
Violets.....	1.00 @ 2.00
Snailx.....	15.00
Adiantum.....	1.25 @ 1.50
Cycas leaves, each.....	1.25

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
 — WHOLESALE. —
 67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
 AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

FLORAL DESIGNS
 The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to
 J. HORACE McFARLAND, Harrisburg, Pa.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
 — WHOLESALE —
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
 FRANK D. HUNTER. JAMES PURDY,
 formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST
 117 W. 30TH ST., NEW YORK.
 The oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR'S,
 — WHOLESALE —
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879. . . .

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
NEW YORK.
 BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
 . . . NEW YORK.
 The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist
 Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
 . . . NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.
 J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

The Seedsmens League holds a meeting in New York this week.

The Jones melon has again appeared under a new name—the Lord Bacon.

Patents Recently Granted.

Fertilizer distributor, B. F. Rix, Kalamazoo, Mich.; Grass cutting implement, C. Stewart, Washington, D. C.; Grass shears, L. L. Barnes, Worcester, Mass.; Hedge fence trainer, P. S. Snyder, Jacobus, Pa.; Lawn mower, G. W. Dake and E. U. Loose, Minneapolis, Minn.; Seed planter, J. A. Dodd, Galva, Ill.; Lawn weeder, J. A. Jones, Kaukaue, Ill.

Catalogues Received.

J. M. Thorburn & Co., New York, seeds; Plant Seed Co., St. Louis, seeds; J. Roscoe Fuller & Co., Floral Park, N. Y., seeds, bulbs and plants; Pitcher & Manda, Short Hills, N. J., seeds, plants and bulbs; John Peed & Sons., London, Eng., seeds; Nathan Smith & Son., Adrian, Mich., chrysanthemums; Sherwood Hall Nursery Co., San Francisco, Cal., plants, seeds and bulbs; W. R. Shelmire, Avondale, Pa., carnations; Alex McBride, Alplaus, N. Y., carnations and coleus; Texas Seed and Floral Co., Dallas, Texas, seeds and plants; G. R. Gause & Co., Richmond, Ind., plants.

Nerve.

ED. AM. FLORIST:—As an example of cool nerve the enclosed reply to a letter of ours advising Mr. Smith that specimens of *Nerium flavum* duplex purchased of him had turned out to be double pink, we think cannot well be surpassed.

Oneco, Fla. REASONER BROS.

—, ILL., Dec. 13, 1893.

GENTLEMEN: Your favor of December 6th at hand. We bought our crop of *Nerium duplex*, have propagated them as such, and yours is the only complaint entered. We never flower the plants ourselves. Would be pleased to send you the 6 plants, but we fear another mistake, and hardly think you had better take the risk.

(Signed) Very truly, — SMITH.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our trade-directory and reference book.

ZIRNGIEBEL'S
NEW AND IMPROVED STRAINS OF

ASTERS—Parisian, extra Early Dwarf forcing, will bloom by Easter. Zirngiebel's Extra Market for general crop. Both strains in white or colors.

STOCKS—Early Dwarf White and Dwarf Yellow.

MIGNONETTE—New Golden, selected seed. **NEW PERPETUAL SCOTCH PINKS** and our well-known strains **GIANT MARKET** and **FANCY PANSIES**.

Any of the above in trade packages at \$1.00 each.

DENYS ZIRNGIEBEL,
Needham, Mass.

OSKAR KNOPFF & CO.,
SEED GROWERS,
Erfurt, = Germany,
FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.



BEST GERMAN FORCING PIPS

Price: \$9 the 1000,

\$20 the box of 2500,

Less ten per cent. for prompt cash.

August Rölker & Sons

New York, P. O. Station E.

SEEDS!
PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

LILUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

ROYAL SPLENDOR VERBENA SEED

"This strain is the result of many years' careful selection. The flowers and trusses are of the largest size, with the greatest variety of fine colors. Evidence of quality." Prof. S. T. Maynard of the Mass. Agricultural College, an expert horticulturist, says, "Your Royal Splendor Verbenas are the most brilliant colored and distinctly marked I have ever seen. With such seed there is little need to winter over named kinds. Send me another ounce of the same seed." Chas. L. Burr, late president of Springfield Amateur Horticultural Society, says, "I consider your Royal Splendor strain of Verbenas unsurpassed in size, with wonderful range and dazzling brilliancy of colors." Every florist who wishes a choice strain of Seedling Verbenas should obtain this New England strain. Trade Pkt. 50 cts., 1 oz. \$1.00

A. B. HOWARD, Seed Grower, Belchertown, Mass.

PHLOX SEED, EXTRA.

Choicest Drummondii Grandiflora.

A selection of the largest and finest flowering varieties that can be procured; grand colors and size; very highly praised by the florists who grew this strain in past last season; do not fail to sow it. Trade Pkt., 20 cts.; 3 Pkts., 50 cts.; 1 Pkt., \$1.00

JOHN P. RUFF, Shrewsbury, Pa.

BENJAMIN RIMBAUD, BULB GROWER,

Quartier du Temple, Toulon, var, France.

Cable address Benrimbaud, Toulon.

The largest cultures in the South of France, of WHITE ROMAN HYACINTHS, Narcissus Faur White grandiflora; N. Double Roman; N. Double Von Sion, true pure yellow, and other Daffodils. Lilium Candidum, the largest bulbs. Frezias, Jonquilla Campanelli at largest flower, early for forcing. Allium. Anemones. Cardinal's Hat, A. Double Rosette the earliest, etc. Prices on application.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order 3000 from

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered for sale from cold storage.

2,500 to 5,000 Pips \$8.50 per 1000
7,500 to 10,000 Pips " 8.00
12,500 to 25,000 Pips " 7.50

C. C. ABEL & CO., New York.

P. O. Box 153.



JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878. SAN FRANCISCO, CAL.

1st QUALITY.

We have gained the reputation of having the finest TUBEROSES in the world, and if you would have the VERY BEST, send us for sample. Two important items, viz.: quality the best. Price the lowest. Send to-day for FREE sample by mail POSTPAID. Address

H. G. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.

KENTIAS { BELMOREANA,
FORSTERIANA,

\$3.00 to \$15.00 each.

John Burton,

CHESTNUT HILL, PHILADELPHIA, PA.

Mention American Florist.

Water Lilies.

SEEDS, TUBERS AND PLANTS.

Now is the season to sow seed and start tubers if you desire to raise good stock for next summer flowering.

SYMPLEX SEEDS of varieties, 50 cts. trade pkg. \$1.00 per ounce.

WM. TRICKER, Dongan Hills, S. I., N. Y.

GROZY ANNAS.

WE ARE HEADQUARTERS

for all the Novelties, and in addition control **EXCLUSIVELY** several grand varieties which we now offer for the *first time*. We will not be undersold on any of the list.

J. C. VAUGHAN,

New York: CHICAGO.
12 Barclay Street. P. O. Box 688.

Greenhouses: Western Springs. . . .

IF YOU WISH TO GIVE YOUR
BUSINESS A BOOM!

PUT IN THE
SNOW GREST DAISY

It will help to cheer the winter's gloom,
And make the times go easy.

Stock practically unlimited. All this **DAISY** needs is to be seen seen to be appreciated. It can **BLOW ITS OWN HORN** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen. 15 for a dollar; 10 for 75. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—1 few ounces left. 50 seed 30c.; 100, 50c.; 1/4 oz. \$1.50; 1/2 oz. \$2.50; 1 oz. \$4.00. Plants of same 60c. per 100; \$5.00 per 1000.

New crop mammoth Verbenas seed, splendid strain, in fine mixture, plenty of whites, intense crimsons and purples, with all the intermediate colors and tints, in packets of 100 seeds, 50c.; 1/2 oz. \$1.00; 1 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose; you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds, 25c.
Double fringed Dianthus, fine strain, all colors mixed, trade packet, 25c. Rooted cuttings and small plants of our leading specialties later. Address, each with order, please, **J. C. GIBSON, Woodbury, N. J.**
Mention American Florist.

"CHRYSL-COLA"

COLEUS, best Varieties, best Stock, now ready.

SEND FOR PRICE LIST.

FUCHSIAS,
GERANIUMS AND
CHRYSANTHEMUMS

are ordered to Feb. 15th, with the exception of a few varieties.

I am now booking orders for delivery after above date.

S. B. FIELD, Roselle, N. J.

CHRYSANTHEMUMS.

ROOTED CUTTINGS.

Lincoln, prize hybrids; Ada Spaulding, Domination, L. Boehmer, Kohillion and 20 other good market sorts, \$1.50 per 100; Jessica and Ivory, \$2.50 per 100—Ready for delivery Jan. 15th.

Address **J. G. BURROW,**
FISHKILL, N. Y.

New Chrysanthemums.

40 VARIETIES INTRODUCED IN 1892.

Twelve Plants for One Dollar.

Now ready for delivery. Send for Catalogue.

M. B. LITTLE, Glens Falls, N. Y.

Mention American Florist.

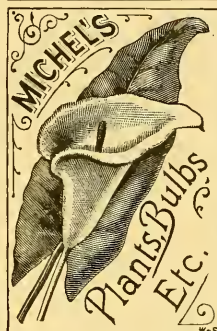


CYCLAMEN FLOWERS will sell if they are good; **CYCLAMEN** plants also. The **giganteum** strain is the only one worth growing if you grow for sale, and there are strains and strains of the **giganteum** also. It is not how cheap, but how good! Remember that! **Gardiner's** strain of **giganteum** comes high; but it's worth the difference. Sow at once for next winter's flowering. \$2.00 per 100 seeds; \$5.00 for 500 seeds; \$15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Street, PHILADELPHIA, PA.

Our trade list of choice Flower Seeds free.



MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

THE SMILAX KING!

Who?
Where?

KOFFMAN,
WALDEN,
Orange Co., N. Y.

What?

SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When?

ALL THE YEAR AROUND.

And he pays the Express.

Tuberous Begonias.

GOOD SOUND BULBS in colors, per 100, \$6.00,
Cash with order.

SEEDLINGS, from best strains of seed in April.

BRAUER & RICHTER,

MCCONNELLSVILLE, O.

Tuberous Begonias.

At the Begonia Show, held by the Dutch Horticultural Society on Sept. 16-19, we took with our Begonias Fourteen First Prizes, including the Gold Medal and also the Affourit Medal. Send for wholesale list. Special low rates for large quantities.

ZOCHER & CO., Haarlem, Holland.

VERBENAS

MAMMOTH BEST SORTS, CLEAN, HEALTHY,

Rooted Cuttings . . . \$1.25 per 100, \$10.00 per 1000
Pelargonium—monthly flowering Fred Dornier—ready Feb. 1st, \$10.00 per 100.

Roses, H. P.s. . . . \$4.50
Forcing and Bedding Teas. . . . \$3.50 per 100

JOSEPH HEINL, Jacksonville, Ill.

Mention the American Florist when writing to advertisers on this page.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen
" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 255 Greenwich Street, New York City.

CLEMATIS.

	Doz.	Handled
2 Year Choice Assortment.....	\$3.00	\$25.00
H. P. Roses, Choice named kinds.....	2.00	15.00
Monthly.....	1.50	10.00
Daisy Snowflake, strong plants.....	1.25	8.00
Dahlias, field grown, choice named.....	.50	3.00
	1.25	8.00

F. A. BALLER,
BLOOMINGTON, ILL.

FOR SALE.

5,000 STRONG YOUNG

ADIANTUM CUNEATUM

From 2 1/2-inch standard pots, at \$12.00 per 100, or \$100.00 per 1000.

Address **GEO. E. BENNETT,**
P. O. Box 5. FLATBUSH, N. Y.

VERBENA SEED.

Mammoth Flowering. Extra.

This grand strain of Mammoth Verbenas has given perfect satisfaction to my many customers in the trade, and is justly claimed to be the finest in cultivation. Florists measure an inch in diameter, in immense umbels; of the finest colors. Liberal trade pkt. 25 cents; 3 pkts. 60 cents; 6 pkts. \$1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Louisville.

Christmas trade in Louisville has been quite satisfactory all round. The demand for fine roses was good. Perles, Mermets, Brides, La France brought nearly \$3 a dozen, good American Beauties \$1 each. We had a fine crop of Marchal Nels that day, which sold for \$3 a dozen. Carnations and violets were especially in demand, and hardly enough could be obtained. Trade in holly and Christmas greens was about as usual and all that could be expected.

Some Lilium Harrisii sold very well at \$6 per dozen, callas also. Bulbous stuff sold as well as usual. Market is overloaded with it. Nowadays customers want fine large roses, and unless you can offer the same people will not buy. American Beauties, White La France and Duchess of Albany sell best with us and bring best prices. N.

Packing Hot Water Pipes.

"Hortus" (page 542 last issue) does not need rubber bands with which to form the joints. Pack in the usual way with rope, filling between and finishing with Portland cement instead of red lead. It is quick, cheap and durable. I have had such joints in use many years, and not one has failed.

Three rows of 4-inch pipe will heat the surface he designates, but if he wishes to be sure without unduly crowding the fires in extreme weather, lay four rows; it is economy in the end. M. A. HUNT.

SOMETHING NEW IN MUSHROOMS was the title of an editorial in *Gardening* for December 15. It was a most interesting account of a new summer mushroom supplied to the New York market. It was identified by Prof. Peck, New York State Botanist, who gave an account of it in the same paper for January 1.

A TYPOGRAPHICAL error in the advertisement of Mr. John McGowan in the last two issues of the *FLORIST* made him offer Nellie Bowden carnation when it should have been Nellie Bowden *canna*.

Tuberous Begonias.

All our own Growing Far superior to Imported stock.

SINGLE.

Mixed	Per 100
Extra Select	\$ 5 00
" (Small Tubers)	7 50
Separate colors Rose, Pink, Scarlet, Yellow,	4 00
and Crimson	8 00
White, Flesh, Salmon, Scar-	10 00
let, Crimson	
Very choicest in 12 distinct vars.	\$5.50 per doz.

Mixed Extra	15 00
" Small Tubers	15 00
Separate colors Rose and Pink	15 00
White, Salmon, Flesh, Scar-	
let, Crimson	25 00
Choicest select in 12 distinct vars.	\$3.50 per doz.
Trade pkt., single	\$ 3 00
Trade pkt., double	1 00

Try some small Tubers; make as fine plants as the larger ones.

Tubers 25 at 100 rate. Seed in half pkts.

F. J. MEECH & SON,
CHARLEVOIX, MICH.

CANNA SEED.

MADAME * CROZY.

Every Florist knows that Madame Crozy is the best of all the new French Cannas, but few realize that from one pound of seed, if sown not later than February, they can produce at least 1000 salable plants by May.

I offer the Trade Seed of Madame Crozy Canna, while stock lasts, at \$7.50 per pound.

JAMES DEAN, Bay Ridge, NEW YORK.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 00 per 1000 Rooted Cuttings, \$1 00 per 100; \$8 00 per 1000.

== NO RUST OR MILDEW. ==

Packed light, and satisfaction guaranteed. Send for circular. . . .

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

Rooted Cuttings.

Per 100

Carnations, New Scarlet, Emily	
Pierson	\$3 00
Leading varieties	1 25
Violets, Russian and Neapolitan.	
Coleus and Alternantheras in var.	

A. N. PIERSON, Cromwell, Conn.

Florists!



It will pay you to consult my list before buying your

ROOTED CARNATIONS.

I can supply the leading novelties of 1893 and 30 best standard sorts, new and old.

ROOTED COLEUS.

In 25 varieties, best bedders and fancies, including a new yellow that will be an acquisition.

Descriptive Trade List

Send on request. Address

ALEX. MCBRIDE,

. . . . **ALPLAUS, N. Y.**

ROOTED CUTTINGS

Of the Best Old and Most Promising new varieties of

CARNATIONS.

Write for a catalogue and send list of wants for an estimate.

J. J. Styer,

CONCORDVILLE, PA.

When writing to any of the advertisers on this page please mention the *AMERICAN FLORIST*.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

A. N. PIERSON, Cromwell, Conn.

W. R. SHELMIRE, Carnation Grower

AVONDALE, CHESTER CO., PA.

Send for price list of Rooted Cuttings.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready

January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

ROOTED CUTTINGS OF

CARNATIONS

All the leading varieties.

Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chesler Co., Pa.

ROOTED CUTTINGS of CARNATIONS

Ready now in large quantity, including GRACE BATTLES, EDNA CRAIG, DAY-BREAK, PURITAN, AURORA, and fifty other best standard varieties.

Trade price list sent on application.

JOSEPH RENARD, Unionville, Chester Co., Pa.

Always mention the *AMERICAN FLORIST* when writing to advertisers

CARNATIONS * AHEAD.

You want the best in the market! We have them, 16 Novelties of '93, and all the STANDARD VARIETIES! Send for our complete Price List.

GEORGE HANCOCK, Grand Haven, Mich.

A ROYAL STRAIGHT		
	Per 100	Per 1000
EDNA CRAIG,	\$12	\$100
GRACE BATTLES,	12	100
WM. SCOTT,	10	75
NEW JERSEY,	12	100
BRUTUS,	8	65

AND A FULL HOUSE.

	Per 100	Per 1000
Mrs. Stanley	\$10.00	\$100.00
Cesar	5.00	40.00
Thos. Cartledge	"	"
Crimson Cornet	"	"
Peachbloss	"	"
Pearl	4.00	32.50
Buttercup	"	"
Aurora	3.00	25.00
Golden Triumph	3.00	25.00
Mrs. Hill	"	"
Ben Har	"	"
Orange Blossom	"	"
Emily Fleson	"	"
Nancy Hanks	"	"
Grace Darling	"	"
Puritan	"	"
Ridelweiss	"	"
White Wings	"	"
Daybreak	"	"
Angelus	"	"
Dorothy	"	"
Fred Dörner	"	"
Nellie Hy	"	"
American Flag	"	"
Gen. Custer	"	"
F. Mangold	"	"
Mrs. Nungold	"	"
Field of Gold	"	"
Chester Pride	"	"
McGowan	2.00	15.00
Lamborn	"	"
Wm. F. Dreer	"	"
Christmas	"	"
Fred Creighton	"	"
Tidal Wave	"	"
Century	"	"
Hector	"	"
J. R. Freeman	"	"
A. Webb	"	"
Pride of Kennett	"	"
Golden Gate	"	"
Blizzard	"	"
J. J. Harrison	"	"
Silver Spray	1.50	12.50
Mrs. Fisher	"	"
Hime's White	"	"
Mrs. McKinzie	"	"
La Purite	"	"
Grace Wilder	"	"
Robt Craig	"	"
King of Crimson	"	"
Florida	"	"

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

THE RULING HAND.—From Judge.

I have read in song and story
Of the honest hand of toil,
(Of the strong right hand of labor
And the hand that tills the soil,
I have heard that sweet old saying:
In the dust of ages buried,
That the hand that rocks the cradle
Is the hand that rules the world.

I have hearkened to the singing
And have wondered at the song,
For I deem the theme poetic,
Though I hold the legend wrong,
Not the hand that rocks the cradle
Nor the babe's rose-petal upturned
Is the hand that sways the nations
And the hand that rules the world.

'Speak not of the hand of guidance,
Pointing out the narrow way,
For the royal hand I sing of
Is a mightier one than they:
Then the hand that bears the banner
Through the smoke of battle hurled,
For the great hand that steers the world
And the hand that rules the world.

Tell me not of hands heroic,
Battling for our fellow men;
(Of the helping hand of woman,
Or the hand that wields the pen;
Nor the hand that beats the carpet,
On the back of the great and true;
For the hand that beats four axes
Is the hand that rules the world!

ORANGE BLOSSOM
CARNATION.

One of the leading new varieties, and an immense bloomer, received a Certificate of Merit in 1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.

MAY FLOWER, splendid variegated, \$2.50 per 100.
THE JENNINGS, FRANK OF FANSIES, 1 tra. packet, 2500 seeds, \$1.00. Fine, stocky plants, small, 60c. per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,
SOUTHPORT, CONN.

When writing to any of the advertisers on this page please mention the American Florist.

ROOTED CUTTINGS.

Price List ready January 10th. . . .

• • Carnations and Geraniums ready now.

Correspondence Solicited. Inspection Invited.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

THE NEW WHITE CARNATION
GOV. RUSSELL

Will be Distributed Feb. 15, 1893.

PRICE OF ROOTED CUTTINGS: Per 1000, \$80; per 100, \$10; 25 or less, \$2 per dozen.

ORDERS WILL BE FILLED STRICTLY IN ROTATION.

FOR SALE BY

N. F. MCCARTHY & CO, 1 Music Hall Place, Boston, Mass.

C. J. PENNOCK, Kennett Square, Pa.

and **E. H. HUNT**, 79 Lake Street, Chicago.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at
MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY**, Paterson, N. J.

ORDERS BOOKED NOW FOR MY SPECIALTIES FOR 1893.

New Jersey.—A scarlet Carnation hard to beat.....\$12.00 per 100
Old Rose.—Old rose pink Carnation.....\$12.00 per 100

Nellie Bowden.—Pure bright yellow Canna.....\$60.00 per 100
READY IN FEBRUARY.

Other varieties of Carnations, both old and new.

JOHN MCGOWAN, Orange, N. J.

CARNATIONS
ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W.

F. Dreer, J. R. Freeman, and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES

500 Paul Neyron, strong plants.....\$10.00 per 100.
20 other leading varieties.....\$10.00 per 100.

CHRYSANTHEMUMS.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. Send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

CARNATIONS
ROOTED CUTTINGS.

Send for Price List of all the leading varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

New Pink Carnation
"BERTHA STAHL."

In color between Wilder and Tidal Wave, an immense blommer, and all on long stems.
READY JANUARY 15, 1893.

Per doz. \$1; per 100, \$8; per 1000, \$50.

CHESTER PRIDE (original stock),
W. F. DREER, LIZZIE MCGOWAN,
SEAWAN, PORTA
GRACE WILDER, and others, now ready.

Terms cash with order. Prices reasonable and satisfaction guaranteed.

W. L. EDWARDS, Norwood, Del. Co., Pa.

GRACE BATTLES
and over 60 other varieties of
CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. PENNOCK,
The Pines, Kennett Square, Chester Co., Pa.

Mention the American Florist when writing to advertisers on this page.

Older Than She Thought.

A young botanist was showing a party of ladies and gentlemen through the conservatory and explaining to them the properties of some of the choicest plants and flowers. Among the visitors was a middle-aged lady who, at every description on the part of the lecturer, volunteered the statement that the plants and flowers she had at home were quite equal to anything exhibited at the Botanical gardens. Just as they were passing the giant cactus she was heard to exclaim:

"Well, this is nothing extraordinary; I have a cactus at home that is still larger; I planted and reared it myself."

"Reared it yourself," the professor gently observed. "How remarkable! This specimen is 63 years old and if yours is still larger—"

The lady did not stay to hear any more, but executed a strategic movement to the rear.—*Texas Sittings.*

Zero Packing.

Are shippers justified in packing ice with flowers when shipping during zero weather? When frozen flowers result therefrom who should be the loser, the shipper or consignee?

READER OF FLORIST.

A Question of Nomenclature.

Is the new *Helianthus lateifrons*, sent out by an eminent florist, identical with *Helianthus luteiflorus*? I have been comparing the two and can not see any difference. A subject for the nomenclature committee.

A. GILCHRIST.



FREE TO ALL.
Our New Illustrated Catalogue of PLANTS, ROSES, BULBS, VINES, SHRUBS, ORNAMENTAL TREES, SMALL FRUITS, GRAPE VINES, SEEDS, etc., will be mailed FREE to all applicants. 100 pages. Most complete Plant Catalogue published. Satisfaction Guaranteed. 20 ROSE HOUSES, 45 GREENHOUSES, 20 ACRES NURSERIES. Address N. ABEL & CO., LOUISVILLE, KY.

New Trade List for Florists Only.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send no quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

Mention American Florist.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,

ARACARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St., SAN FRANCISCO, C. L.

Adiantum Capillus Veneris,

The coming Fern for florists. For reasons why see AM. FLORIST, issue of September 1st, page 119.

Splendid young stock, 2 and 2½-inch pots, now in prime condition to ship. Price \$8.00 per 100.

NEPHROLEPIS EXALTATA.

This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. On ordinary grown plants in 5-inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and fill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • Bay City, Mich.

ALWAYS OF FIRST QUALITY.

ALWAYS TRUE TO NAME.

Roses, Clematis, Azaleas and other Plants

GROWN AND EXPORTED BY

THE BOSKOOP, HOLLAND, NURSERY ASSOCIATION.

Send for Special Import List.

C. H. JOOSTEN, 3 Coenties Slip, New York.

Rooted Cuttings

of Evergreens, Hardy Flowering Shrubs and Hardy Perennials (Achillea, Iberis, etc.), raised on contract for spring delivery. SEND LIST OF WANTS.

ISAAC C. ROGERS, MOORESTOWN, N. J.

NOVELTY FOR 1893!

Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as of other EXTRA CHOICE FLOWER SEEDS free on application.

FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.

GRAPE VINES.

(FOREIGN.)

All the leading varieties for cultivation under glass, in following sizes: Fruiting vines for forcing in pots, 1 year, 2 years, and extra strong. Also Petches and Nerfartines, specially prepared for forcing in pots and this. Orders stored until May 15th if desired. Prices upon application.

JOHN G. GARDNER,
JOYSTOWN, N. J.

No Trees

of 1st quality can ever be sent by mail. Mayhap you know it. By freight, prepaid if preferred, we ship safely 4, 5, or 6 ft. trees, 2-yr. Roses of rare excellence—everything! You actually pay less than for the puny stuff. 1,000 acres Nurseries. 20,000 acres Orchards. Exact information about trees and fruits. Stark Bros., Louisiana, Mo.

CANNAS
CHRYSANthemums

The best only. Seed of either, 25 cts. per packet. Circulars free.

T. H. SPAULDING, Orange, N. J.

Always mention the American Florist when writing to advertisers.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.

Association "Flora"

BOSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSE, for forcing, 9-00
In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charla, Paul Neyron, P. C. de Rohan, Merville de Lyon, Ferle des Blanchies, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Palms, Dracenas, Arancarias and Bay Trees at our nurseries in Holland. Catalogue on application.

P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.

Mention American Florist.

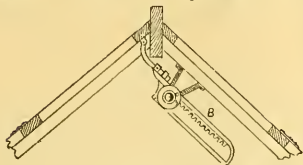
TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. CATALOGUE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Always mention the American Florist when writing to advertisers.

SEE WHAT THE FLORISTS SAY ABOUT The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.
J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more Order Sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."
Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,
HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.
Mention American Florist.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. Also make Cut Flower and Express Boxes.

W. W. C. SMITH,

Successor to SMITH & SMITH,
Hardin County, KENTON, OHIO.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.

ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
When writing mention American Florist.

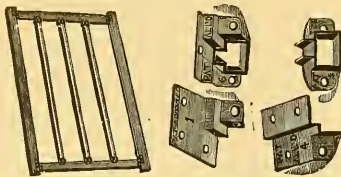
STOTT'S DISTRIBUTOR



Read Advertisement in Next Week's Issue.

U. S. AND FOREIGN Trade Marks, Designs, Opinions, Searches, &c., promptly attended to. Send sketch or model for free examination as to patentability. All work strictly confidential.

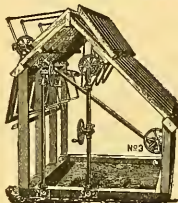
GEO. H. CHANDLER,
Atlantic Building, WASHINGTON, D. C.
Mention American Florist.



J. C. VAUGHAN, Agent for Chicago and New York.

ESTABLISHED 1866. FLORISTS WIRE DESIGNS MANUFACTURED BY N. STEFFENS 335 EAST 21ST ST. NEW YORK.

THE STANDARD Ventilating Machines



Received best awards at

BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
Youngstown, O.

TOBACCO STEMS FOR FLORISTS.



Packed in bales.

PRICE:
200 lb. bale, \$2.50
500 lb. bale, \$5.00

CANE STAKES.
Fresh stock; per 1000,
7 to 10 ft., \$5.00.

WM. ELLIOTT & SONS,
SEEDSMEN,
54 & 56 Dey St., NEW YORK.
Mention American Florist.

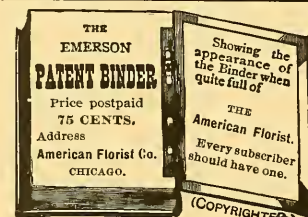


Wrought Iron
Pipe,
Fittings,
Valves,
ETC.

78 JOHN ST., NEW YORK.
WELLS & GOUTAN CO., Ltd.



Kills Mildew
and
Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.



GARDENERS HOT-BED SASH. INDESTRUCTIBLE. CYPRESS GREENHOUSE WOOD WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE
SOLICITED.

Clear Cypress,
from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,

Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO, ENGRAVERS.

PLANT BED CLOTH.
CHEAP SUBSTITUTE FOR GLASS on Hot-beds, Cold Frames, etc. Three grades.
Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from frost. Promotes, hardy, vigorous growth and keeps beds warm; will not shrink or mildew. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples reply.

NATIONAL WATERPROOF FIBRE CO.,
50 South Street, NEW YORK.
Agents Wanted.

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

A Fifty-cent "Poem."

A Michigan florist sends us the following "effusion," which he received just before Christmas. Lofty flights of imagination are expected from poets, but the half-dollar ideas of this one seem to be unusually expansive.

Mr. ———, DEAR SIR:—
On the Friday morn before Christmas day,
Please send me a 50-cent bouquet;
'Tis for a friend not very far away.

Let the carnations be pure white and deep red,
With a few pale pink, or lemon, or both, instead;
And the fragrance which only carnations can shed.

A few sprays of heliotrope, white and blue,
But if this is not the season with you
Anything delicate and sweet will do.

For the centerpiece a half blown rose,
'Mid its own green leaves and buds to repose,
With plenty of room for it to inclose.

I am sure you will arrange these colors to blend,
'Twill afford me the greatest of pleasure to send
This dainty bouquet to my fastidious friend.

Respectfully, ———

The hearer will leave it at "Lane's Book Store."
Please instruct him "C. O. D." at the door.

Upright Steam Boiler.

Can any of your readers tell me whether I can use an upright stand steam boiler for hot water heating. I am a beginner from last year, and started with one 50x16 greenhouse and an 8 horse power boiler, but it does not pay to heat such a small house by steam. The boiler is upright, 4½ feet high and 2½ feet in diameter. I use 2-inch pipe. Can any experienced reader of the FLORIST describe fixing pipe?

SUBSCRIBER.

Politeness.

If strict ideas ever come,
That Boston lady had 'em.
She never said: "Chrysanthemum;"
She said: "Chrysanthem-madam."
—Life.

THE BEST POTS.

THE CHEAPEST.

THE LOWEST FREIGHT RATES.

THE BEST OF PACKING.

THE LARGEST POTTERY IN THE STATE
FOR MAKING STANDARD FLOWER POTS.

PRICE LIST OF POTS.

	Per 100		Per 100
2 inch	\$ 3.25	6 inch	\$ 2.20
2½ "	3.50	7 "	3.50
3 "	4.00	8 "	5.00
3½ "	5.00	9 "	7.50
4 "	7.25	10 "	10.00
4½ "	9.00	11 "	15.00
5 "	13.50	12 "	20.00

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Potters.

FORT EDWARD, N. Y.

FOR Florists, Nurserymen & Seedsmen

GEM STEEL GEM
WIND ENGINE
GEM STEEL TOWER

The GEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no churning, and practically no attention, yet is more durable than other Wind Motors that require all this and more unique in make. The GEM TOWER combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence and who build the Holland Standard Standard Vaneless and U. S. Solid Wheel Wind Mills, Pumps, Tanks, Horse Hay Tools, &c. No other company offers equal inducement. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.

BATAVIA, ILL., U. S. A.



Always mention the American Florist when writing to advertisers.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER
STANDARD FLOWER POTS.

Write for an Illustrated catalogue and price list of Pots, Lawn Vases, Hanging Baskets, Bud Pots, etc.

ADDRESS PITTSBURGH GLAY MF'G CO., New Brighton, Pa.

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, See'y F. H. A., Saddle River, N. J.

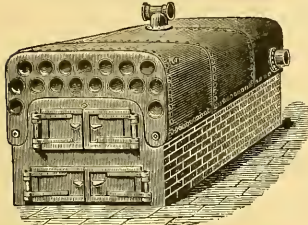
When writing to any of the advertisers on this page please mention the American Florist.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

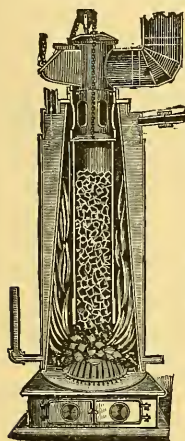
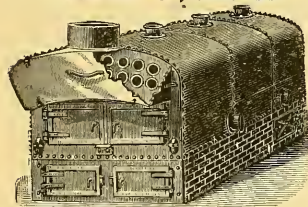
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

WORKS, 66th & WALLACE STREETS.

CHICAGO.**THE WILKS HEATER,**
FOR HEATING**GREENHOUSES, STORES, DWELLINGS, ETC.**
Manufactured **THE S. WILKS MFG CO.** 123 S. Clinton St., CHICAGO, ILL.
SEND FOR CATALOGUE.**KROESCHELL BROS.**
IMPROVED**Greenhouse x Boiler,**
41 to 55 Erie St., CHICAGO.Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.
Mention American Florist.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.



Mention American Florist.

THE "LOCKLAND"
Sash Bars * * ***ARE ALWAYS SATISFACTORY.**

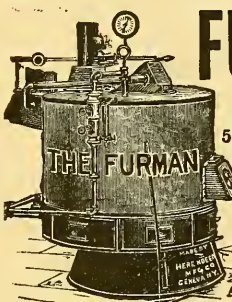
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.The finest **CLEAR CYPRESS** used.

Write for circulars and estimates.

LOCKLAND LUMBER CO.

Lockland, O.

**FURMAN BOILERS****Economical — Substantial — Safe.**

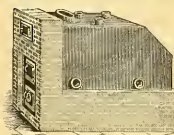
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water HeatingThese Boilers have a high reputation for Stanniness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address **HEREDEEN MFG. CO.,** 26 Vine Street, GENEVA, N. Y.**Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?All of this can be accomplished by using the improved
RIDER
OR
ERICSSON HOT-AIR PUMPING ENGINECatalogue with full particulars sent on application.
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.**ERICSSON****D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASSfor ROSE HOUSES, CONSERVATORIES, Etc., Etc.
Our Glass received the Highest Award at the Boston Convention of the S. A. F.**FIRST-CLASS CERTIFICATE OF MERIT.**
PERFECT DRAINAGE BENCH TILE •

For testimonials, circulars, etc., address

W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY**GREENHOUSE HEATING**
AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,74 & 76 Myrtle Ave., Brooklyn, N. Y.
Send for Catalogue.**GREEN-HOUSE**
HEATING.**MYERS & CO.**

1518 & 1520 S. 9th St.,

PHILADELPHIA.

Send for catalogue and price list.

Mention American Florist.

Index to Advertisers.

Abel C C & Co.	561	McFarland J H	563
Adv Rates, etc.	562	McFarland J H	563
Andorra Nurseries	563	Metcalfe John	563
Bailey F A	563	Menz J & Co.	563
Bay State Hdw Co.	563	Marschuetz & Co.	563
Bayshore H & Co.	563	Messch F J & Son	563
Baylis Henry W	563	Meyer John C & Co	563
Beckett Geo.	563	Michel Plant & Bulb Co	563
Berner H H & Co.	563	Mississ Bros	563
Bonsall Jos E & Son	563	Moffatt G J	563
Boston Letter Co.	563	Moninger Jno	563
Braque L B	563	Moore Samuel C	563
Bruer & Hatcher	563	Moore Frank L	563
Burns & Raynor	563	Myers & Co.	563
Burrow J L	563	Nanz & Neuner	563
Burton John	563	National Hot Water	563
Carney R W	563	Heater Co	563
Carmody J D	563	National Fibre Co	563
Chandler Geo F	563	Niles Centre Floral Co	563
Chittier H E	563	Olsen M	563
Connelly John J	563	Ouwkerk P	563
Corbett T J & Co.	563	Peck & Sutherland	563
Denn James	563	Peirce & Coleman	563
Devine's Buller Wks	563	Pennock Sam'l S	563
De Launier Iron Wks	563	Peterson A N	563
Dillon J L	563	Peterson F R Co	563
Dreer H A	563	Pittsboro Clay Mfg Co	563
Edwards W L	563	Randall A L	563
Elliot W H	563	Renard Joseph	563
Ellott Wm & Sons	563	Rimhard Bond	563
Ellison Wm	563	Roberts D H	563
Faust H G & Co	563	Roehrs Theo	563
Faithful Lyman	563	Roemer Fred	563
Field S B	563	Rogers Nurseries	563
Gardner Jno G	563	Rolker A & Sons	563
Gardiner J & Co	563	Rupp John J	563
Gilson J C	563	Russell Governor	563
Gonzalez & Co.	563	Russell S J	563
Hall Assn Inc	563	Sander & Co	563
Hammond Benj	563	Schofield D C & Co	563
Hancock Geo	563	Schulz Jacob	563
Hart James	563	Scolley John A	563
Hart Michael A	563	Seitre P & Sons	563
Hartford H B	563	Shelme W H	563
Hetel Jos	563	Sheridan W F	563
Hereford Mfg Co	563	Siebrecht & Wadley	563
Herr Albert M	563	Stude Popfel & Co	563
Hewes A H & Co	563	Situations, wants	563
Hillinger Bros	563	Smith C A Floral Co	563
Hill R G & Co	563	Smith W E	563
Hillard E	563	Spaulding T H	563
Hitchings & Co.	563	Spooner Wm H	563
Hocker H M Co	563	Stark Bros	563
Horan Edw C	563	Starr Chas T	563
Howard A B	563	Steffens N	563
Hulsebosch Bros	563	Stott Garden Imp Co	563
Hunt E H	563	Styer J J	563
Hunt M A	563	Sunderbruch H L	563
Hunter & Purdy	563	Swayne Edw	563
Irvine John Co	563	Swayne Wm	563
Jeffords J F & Co	563	Tricker Wm	563
Jennings E B	563	U S Wind Engine & Pump Co	563
Joosten C H	563	Vaughan J C	563
Kaufmann Ernst	563	Waterbury Rubber Co	563
Kennelott Bros	563	Weber & Don	563
Knopf Oskar & Co	563	Weich Bros	563
Koffman E	563	Wells & Coutan Co	563
Kroeschell Bros	563	Whitell Pot Co	563
Kuehn C A	563	Winter N D	563
La Roche & Stahl	563	Wisconsin Flower Ex	563
Little M B	563	Wood Bros	563
Locking Lumber Co	563	Zimmetl D	563
Lombard H T	563	Zocher & Co	563
Lund Dan H	563		
McBee Alex	563		
McCarthy N F & Cough	563		

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

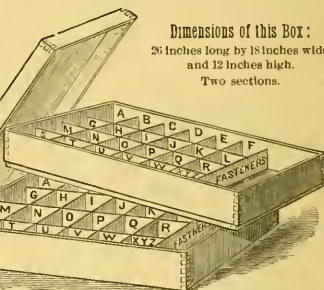
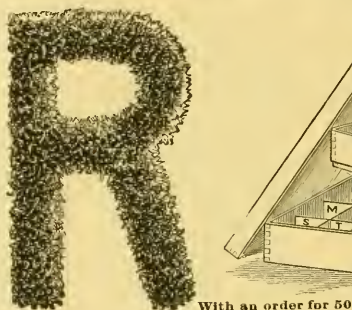
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of
Iron Frame Construction, Erected
complete, or the Structural Iron
Work shipped ready for
erection.

Iron Frame Benches with the "Perfect
Drainage Bend Tile" or Slate Top

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



Dimensions of this Box :
26 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood,
nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent
lastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. McCARTHY, Address 13 Green St.

Treas. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider
a decided service. Any customers having old style
fasteners which they wish to exchange, can do so
without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

THIS IS THE LAST CALL for advs. in
our special carnation number which will
be issued next week. Copy for advs.
must reach us by the 16th inst. at the
latest. You can't afford to let this num-
ber go to press without your adv. The
valuable reference matter it will contain
will cause it to be carefully preserved for
a long time.

CYPRESS GREENHOUSE
MAKERS
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

CLEAR
CYPRESS
SASH
BARS

Mention American Florist.

Hot Water Heater
BY HOT WATER CIRCULATION
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



FOR WATER, AIR, STEAM, ACIDS,
OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose
can be applied.
Sizes, ¾-inch to 42 inches diameter.
The making, vending or use of any Serviceable
Armored Wire Bound Hose not of our manufac-
ture is an infringement on one or more of our
patents. The rights secured to us render each individual
dealer or user responsible for such unlawful
use with all the consequences thereof. For prices and discounts address
WATERBURY RUBBER CO.,
Sole Mfrs and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

V. VIII.

CHICAGO AND NEW YORK, JANUARY 19, 1893.

No. 242

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, of Bromfield St., Boston, Mass., secretary; M. A. HUTCHINSON, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

CONTENTS.

Carnations—The jury's verdict	575
—Groups of whites (illus)	577
—Group of scarlets (illus)	579
—Group of yellows (illus)	579
—Group of red varieties (illus)	581
—Group of pink sorts (illus)	581
—Varieties recently registered	582
—Sweetbrier (illus)	582
—Seasonable notes	582
—Group of crimson (illus)	583
—Group of variegated sorts (illus)	583
—Our telephone	584
—Sophia (illus)	584
—Helen Keller (illus)	585
—Raising seedlings (with 8 figures)	586
—Carnations in Michigan	588
—The carnation army (illus)	589
—Carnations at Madison Square Garden	592
—Forms of growth (with 3 illus)	591
—Carnation Emily Pierson	592
—The best twenty carnations	592
—The origin of the carnation	593
The late Charles T. Starr (with portrait)	593
Philadelphia	593
Toronto	596
Boston	598
Baltimore	600
New York	602
The seed trade	604
Catalogues received	604
Obituary	604
Chicago	606
Worcester, Mass.	610
Albany, N. Y.	610
Indianapolis	611
Buffalo	614
Pittsburg	616

THE RECENT severe cold weather has resulted in a shortage of coal in some sections and florists who run on a short supply of fuel have been seriously inconvenienced.

THE EXECUTIVE COMMITTEE of the Society of American Florists is now in session at St. Louis, preparing the program for the convention of 1893. A full report of the work of the committee will appear in next week's issue.

WASHINGTON, JAN. 17.—The bill providing for a charter for the Society of American Florists came up in the house of representatives but failed to pass, Congressman Bailey, of Texas, objecting. The bill was then placed on the calendar.



The Jury's Verdict.

The number of carnations now introduced to commerce every year bids fair to soon make a full list of varieties as lengthy as one of chrysanthemums. But the work of improving the carnation through cross-fertilization was begun so much later, by carefully preserving the data now to be obtained we can make the record much more perfect than that we have of the progress of the rose and the chrysanthemum to their present standard of excellence and multiplicity of forms and varieties.

In our directory and reference book we printed a list of varieties with description and date of introduction, and in this special carnation number we aim to begin the work of weeding out varieties that have proved to be of little merit or that have been superseded by better sorts of the same type and color. Of course the status of any variety can not be determined until there has been time for thorough test, and for this reason few or none of the newer varieties are commented upon. As differences in climate, soil and other conditions often cause marked differences in results we have selected our jury of five experts from localities with conditions differing as widely as possible, and have taken care to also place on record a description of the soil used by each one. The names of the gentlemen composing the jury, together with the initial by which the individual judgment is indicated in the list, are given below.

William Swayne, Kennett Square, Pa., (S.)—"We have a rather sandy loam with a good deal of mica in it. Our mode of preparation for benches is to fill benches with soil, give a heavy coat of manure, digging in thoroughly; then a good coating of bone meal is applied and well stirred in with a garden rake."

Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa., (L.)—"My soil is inclined to be stiff; that is to say, it is a heavy soil. Our soil is dry."

A. M. Herr, Lancaster, Pa., (Hc.)—"My soil is a sandy loam filled with micaceous rock; it is naturally adapted to the growth of carnations and I dare not use manure in any quantity either out or inside. I do not take any special pains in the preparation of my soil, and renew it about every three to four years. If I did as some growers do, and used manure liberally, my plants would become unwieldy in size; they produce a

nice clean and healthy growth in the natural soil."

Fred. Dörner, Lafayette, Ind., (D.)—"Mr. Dörner's soil is decidedly light, though with a very slight admixture of clay. It may be described as a very light sandy loam."

James G. Hancock, Grand Haven, Mich., (Ha.)—"Soil extremely light and sandy, without any trace of clay in the rising ground; heavy black earth in swampy places. Clay only found in scanty isolated patches. Average soil similar to Mr. Dörner's but rather lighter."

That the judgment of each one might be absolutely unbiased by the opinions of the others, each one was interviewed separately and without his being given any intimation of what has been said by his colleagues. Therefore "what the other fellows said" will be known to the jurors only when they receive a copy of this issue of the FLORIST.

We believe that this record of tests and experiences, gathered in this manner and from such sources, will be of inestimable value to every florist in the land, whether he devotes whole houses or only a small bench to this flower, now so indispensable to the trade.

Ada. Dark purple. L.—Not yet in commerce.

Adelaide (1892). Delicate pink. Algezire (1881). Red. L.—Not so good as Portia. S.—About run out; Ha—Discarded; did not suit the soil, and the color was too dull.

Alessandro (1892). Flesh ground, very heavily marked with deep crimson. Ha—Strong grower, good habit.

Alexander (1891). Deep pink. (L.—Using-Henderson).

American Flag (1890). White striped scarlet. A sport from Portia. S.—Not much, too small; Ha—Good striped form, but not always constant, and the flower small.

American Florist (1888). Rosy orange, variegated with carmine. S.—Run out. American Wonder (Syn. of La Favorite 1884). Rosy carmine. Ha—Discarded, not constant in blooming, a cropper.

Amy (1880). White, striped pink. Amy Phipps (1888). Yellow, striped red. Ha—Have used it in crossing. Good healthy grower and good cropper, but calyx bursts.

Andalusia (1884). Sulphur yellow, tall grower. S.—Pollen parent of Caesar; D—This is better than Golden Gate and fine in every way, but with me it has one bad fault—every flower bursts; Ha—Good color, though light; fairly productive, but flowers burst badly. Not much grown.

Angelus (1891). Pink. Darker than Grace Wilder. L.—Bright pink, broad petals; becoming popular in some localities; S—Strong, good grower; He—Good large pink, strong grower; Ha—Did not

open well with us, did not succeed. Apparently our soil does not suit it.

Anna Webb (1885). Crimson. L—One of the best crimsons, free bloomer, deeply serrated petals; S—Good color, hard to propagate; H—Only crimson I can grow with a profit; D—Good, but Creole is better with us; similar color, but larger and better calyx; Ha—Good, but we prefer Ferd. Mangold, which is freer, longer stemmed and a better keeper.

Annie Wheeler (1892). Pink, tinged with salmon. Ha—Pretty color, but flimsy flower and poor habit.

Annie Wiegand (1891). Pink. L—Similar to Grace Wilder; D—Good flower, still grow it, but think Mrs. Elizabeth Reynolds is an improvement of the same type; Ha—Pretty color, but weak stem and weak grower; superseded by better of the same color.

Anthony's Pink. (Syn. of Chas. Sumner).

Astoria (1863). Yellow, marked with crimson and scarlet. L—Superseded by Buttercup; S—Run out; D—Discarded; Buttercup better.

Attraction (1892). A shade between scarlet and crimson—crise. L—Superseded by Thos. Cartledge; D—Free bloomer, brilliant color, but small slender growth; does well in many localities; Ha—Novel color, very free bloomer and good grower, worth growing, though at times it bursts.

Anrora (1892). Light pink. S—Fine grower, good color, fragrant; H—Excellent pink, good grower; Ha—Fine, large flower, free bloomer and fragrant; dwarf in habit.

Avalanche (1892). Dark rich pink. B. A. Elliott. (Syn. of Secretary Hunt). Banner (1893).

Beatrice. Salmon. Ha—Did not succeed here.

Beatrice White (1884). White.

Beauty (1882). Rose.

Beauty of Oxford (1889). Pink. L—Seems to have dropped out; S—Superseded; Ha—Very tall, late, free bloomer, but small flowers, discarded.

Ben Hur (1892). Soft Wilder pink. L—Not quite up to expectations; D—Good, with lively color, a free bloomer and perpetually in flower; Ha—Very good, dwarf and free; worthy of further trial.

Bertha Soper (1890). Pink. Ha—Too weak a grower to be profitable.

Black Knight (1886). Crimson.

Black Prince (1885). Crimson.

Blanche (1893). White. D—Strong, free bloomer, flowers deeply fringed.

Blizzard (1888). Yellow, variegated with red. L—Lighter yellow and not as striking as Buttercup; S—Strong, fine form; Ha—Very good, strong grower, but too light a ground and too much color for yellow.

Bohemian Girl. Dark salmon shading to a lighter color at the edges of the petals. Sport from Snowden. L—Not yet in commerce.

Boissy (1886). Light yellow splashed white. Ha—Too weak a grower, compared with others.

Boule de Neige. White, like Edwardsii. Ha—Does not suit here.

Bouton d'Or. Yellow, slightly marked with purple. Ha—Very good, but hard to propagate.

Brewster (1889). Dark pink, strong grower. Ha—Does not do well in the winter here.

Brunette (1893). Rich crimson. L—Not yet in commerce.

Brussels (1881). Crimson and red.

Brutus. Solid red.

Buster (1892). Dark red.

Buttercup (1878). Yellow, striped

scarlet. L—Where this variety succeeds it is the best yellow for commercial purposes up to date. S—Best of its class. H—Excellent, but hard to grow. D—One of the best yellows, but does not suit this district. Seems confined to small localities. Ha—Still the best yellow where it will grow—seems to need a clay soil.

Cesar (1891). Salmon pink, marked red, fine form. L—Great things are expected of this variety as a breeder. It has several of the requisite good qualities, stout erect stem, very full flower, and under some circumstances it does not burst. S—Very strong. Best of variegated forms. Good seed producer. Ha—Did not do well here.

Canada (1891). Dark pink. D—Good flower, peculiar upright foliage, strong. Mrs. Robt. Hitt is better in the same line, color more glowing. Ha—Color not sufficiently distinct to retain.

Catherine Paul (1884). Pink. Ha—Too much of a "cropper," flowers spring and fall, but stands still in the winter.

Century (1886). Dark pink. L—Superseded by Thos. Cartledge. S—Superseded. H—Run out; D—Discarded, did not last; the variety too old, and running out. Ha—Did not seem to have staying powers; discarded for Tidal Wave.

Chas. Henderson (1884). Pink.

Chas. Sumner (1868). Bock's seedling. Light pink. L—Believed to be lost in the east. Ha—Discarded.

Charmer (1885). Pink.

Chastity (1890). Rosy pink.

Cherry Lips (1891). Pink. D—Have given up growing it. Ha—Discarded; excelled by others of the same color.

Cherry Ripe (1884). Cherry.

Chester Pride (1884). White striped scarlet. L—Has been a favorite fancy for a long time, but is destined to be soon superseded. S—Fine, but will not stand much water. H—Run out. Ha—Did not succeed in this locality.

Christmas (1890). Wilder pink. L—After the style of Grace Wilder and no better. S—Small flower, good color. H—Never taken hold of by the trade. Ha—No good here.

C. J. Clarke (1884). Red.

C. J. Haettel (1892). Crimson. Ha—Very good, free, slender, but stems rigid. Clara Morris (1886). White splashed crimson.

Clifton (1886). Large crimson.

Cloth of Gold (1888). Yellow. D—Poor bloomer, discarded.

Columbia (1886). Salmon, striped and marked crimson. S—Strong grower, inclined to burst. D—Weak stem, discarded. Ha—Did not take in the trade.

Constance (1891). Scarlet. L—Not so bright as Portia, nor is the stem so stout. S—Fine flower, good color. Ha—Somewhat weak, not very early.

Corona (1892). Buff marked with carmine. Ha—Slender grower, but free.

Coronet (1892). Crimson. L—A very promising crimson, flower not very large, but with stout erect stems; S—Strong grower, color good; Ha—Very good, flower medium free, good color, promising.

Creole (1891). Dark crimson. S—Weak grower, very dark; D—Good, lasting, foliage like Robt. Scott; Ha—Dark, good dwarf habit, but prefer Ferd. Mangold.

Crimson Coronet. (Same as Coronet.) Crimson Velvet (1887). Crimson.

C. Schmitt (1890). White. Ha—Small flower, does not bloom continuously.

Cymbeline (1884). Red striped white.

Daisy (1875). Blush. Ha—Several sold under this name; did not grow it now.

Dawn (1886). Base of petals delicate pink, shading to white at the edges. S—Dwarf habit, good color; H—Run out; Ha—Does well for fancy variety, but does not take for general use.

Daybreak (1891). Delicate salmon. L—One of the best varieties introduced in recent years, well made flower and stout erect stems; S—Color excellent, fine grower; H—Excellent all round; D—Good, very popular, fine flower and good grower; Ha—Excellent in every way; one of the best.

Degraw (See President Degraw).

Delaware (1893). White and scarlet variegated.

Delicata (1888). Cream white edged pink. Ha—Too small for general use.

Delight (1891). White. D—Still grow it; strong, good for cutting and market.

Diadem (1870). Dull red.

Diamond (1893). White, with pink tinge.

Dorinda (1892). Pink, not so light as Wilder. Ha—Large flower, but color not distinct enough; fairly productive.

Dorothy (1891). Pink, lighter than La Purite. S—Strong grower; Ha—Did not succeed with us.

Dr. Smart (1893). Pinkish cream, striped crimson. D—Very fine, dwarf.

Duke of Orange (1878). Orange striped red. L—Seems to have dropped out. Myrtle, the same shade of color, is better; S—Superseded; H—Run out.

Eclipse (1881). Red.

Edelweiss (1891). White, sport from Chester Pride. S—Fine white, strong; H—Superseded; Ha—Does not do here.

Edna Craig (1893). Soft bright pink. L—A very promising variety in the delicate pink class, large; S—Strong grower, color good; H—Out of sight!

Edwardsii (1886). White. S—Run out; H—Run out; D—Discarded; Ha—Discarded.

Edwin Lonsdale (1891). Delicate salmon. L—Superseded by Daybreak; S—Bursts; H—Superseded; D—Large, but not so good as Daybreak. Has developed a tendency to burst, which was not at first apparent; Ha—Large, but not productive.

E. G. Clark.

E. G. Hill (1887). Scarlet, large flower. L—Not so good a grower as Portia, nor so healthy. S—Run out, discases badly; H—Hard to grow; D—Have used for stock with fine results; good calyx, good color; Ha—Fine, but not so bright as some others. Should not be discarded.

Elmont (1888). Crimson.

Emily Louise Taplin (1891). Crimson. H—Flower too small; Ha—Flowers small; discarded.

Emily Pierson (1892). Scarlet. Ha—Strong grower, strikingly like Garfield.

Emperor of Morocco (1881). Dark crimson. Ha—Too late, discarded.

Ermine. Deep pink. Ha—Almost lost.

Evangeline (1892). White, striped with red.

E. V. Lowe (1893). Carmine yellow striped.

Excelsior (1893). White.

Exquisite (1892). White, delicately striped pink.

Fair Rosamond (1884). Pink. Ha—Bursts too badly for profit.

Fairy Princess (1884). White, pencilled with maroon.

Fascination (1882). Similar to Hlinsdale. S—Run out.

Ferdinand Mangold (1886). Rich crimson. S—Strong, fine color; D—Discarded, flower bright and large, but it splits badly; Ha—The best crimson we have tested in our locality.

*Mrs. Fisher.**Mrs. Fisher,
Pearl.**Hinze's White,
Pearl.**Silver Spray.*

GROUP OF WHITES

*Lizzie McGowan.**Lizzie McGowan,
Puritan.**Puritan.**L. L. Lamborn.**L. L. Lamborn.*

GROUP OF WHITES

Field of Gold (1878). Yellow. S—Late, slender growth; D—Clear yellow, but shy bloomer, and late, not strong enough for stock; Ha—Too late for trade use; may be described as a remontan.

Firebrand (1881). Scarlet.

Fitzpatrick (1885). White and pink.

Florence (1886). Scarlet, deeply fringed. Ha—Good grower and free, but color too light.

Florence Bevis. Pink.

Florence Van Reyper (1893). White.

Frank McGregor (1893). Red.

Fred Creighton (1890). Wilder pink.

S—Strong grower, good color, late; He—Good but late; Ha—Fine color for a collection.

Fred Dorner (1891). Scarlet, large flower; L—Large scarlet, but is somewhat inclined to burst; S—Fine color, strong grower; He—Excellent; D—Sometimes splits, but keeps its form. Very large, full bloomer, strong stem, all good qualities, but deficient in calyx; so far, best scarlet with us; Ha—Large, fine habit, but inclined to burst.

Fred Johnson (1881). Light red (This name has also been given to May Queen, through some blunder. But it properly belongs to the red variety here noted, introduced in 1881). L—Believed to be out of cultivation.

Garfield (See President Garfield).

General Custer (1891). Variegated red and white. Ha—Discarded.

Geneva (1890). White, lightly striped purple; Ha—Color bad.

George Thorpe (1884). Scarlet.

Germania (1886). Yellow. D—Poor grower, failed; Ha—Fine flower, but may be called a remontan, and useless for forcing.

Gibbonsii (1880). Dark crimson.

Glorious (1892). Dark pink.

Glowing Coal (Syn. of Portia).

Golden Gate (1889). Yellow. L—Bursts calyx, has seen its best days; S—Bursts; H—Good all round; D—Good grower, but bursts; used it as stock. Grows stronger than Buttercup, but gives no perfect flowers; Ha—Clear yellow, and a good grower, but bursts.

Golden Triumph (1892). Canary yellow. L—A beautiful shade of yellow, but is very much inclined to come in clusters; S—Strong growth, good color; He—Good all round; Ha—Very promising, but is not yet thoroughly tested.

Goldsmith (1892). Rich yellow, striped with red.

Grace Battles (1893). Delicate pink. L—Large petals, not too double, promising; S—Color fine, good growth; He—In it with Edna Craig; Ha—Good color, splendid habit, promises to be a leader in its class.

Grace Darling (1892). Light pink, good shape. L—Darker shade of pink than Wilder; S—Color good; He—Good sort; Ha—Good, fine color.

Grace Fardon (1889). Pink. L—Believed to have dropped out; S—Superseded; He—Rather small, superseded; Ha—A "cropper," no good for forcing.

Grace Wilder (1881). Light pink. L—Still good, where well grown, free bloomer; S—Strong, a standard pink; He—Superseded; D—Poor grower here, seems to be going out; flowers often come mottled rather than solid; Ha—Still in a class by itself, excellent.

Harriet Thorpe (1884). Rose and white, Hector (1891). Bright scarlet. L—Is not so good a grower as Portia around Philadelphia; S—No good; He—Superseded; Ha—Good, fine color, free, and strong grower.

Helen Keller. Pure white finely penciled with crimson.

Helen Galvin (1893). Wilder pink.

Hesper (1893). Similar in color and marking to Buttercup.

Hinsdale (1875). White, shaded lilac; S—Superseded; He—Run out; D—Discarded; Ha—Discarded.

Hinze's Red (1879). Red. Ha—Too small, discarded.

Hinze's White (1879). L—Is still one of the best whites we have, where successfully grown; S—Strong grower, cropper; H—Superseded; D—Very good, but not pure white. Does not seem to run out; much used for stock; Ha—No good here, locality does not seem to suit it.

Hoosier (1893). Light scarlet, almost cerise. D—Large, perfect flower.

Hugh Graham (1885). Dark scarlet.

Iago (1893). Crimson. S—Good color, stiff stems.

Ida McKinley. Similar to Wilder in color (Thought by some to be identical with Mrs. Lemuel Fawcett). Ha—Fine color, resembles Mrs. L. Fawcett.

Ideal (1892). White, edges of petals marked with red.

Imogen (1884). Yellow, striped red. Ha—Small flower, and a "cropper," discarded, as being of no commercial value.

Indiana (1892). Creamy white, marked with bright pink. Petals large, and flower of extra size. D—Good striped flower, strong stem, blooming singly; good for stock; Ha—Good habit, fine for fancy sort.

Innocence (1891). Pink colored. Ha—Discarded.

James Madison (1878). Yellow and crimson.

James Perkins (1884). Reddish pink.

Jay Gould (1884). Brick red.

J. B. Jacquier (1890). Yellow. Ha—Small flower, and does not open well, no use commercially.

J. B. Kidd (1886). Crimson.

James Morel. Yellow, striped purple. Jeannette (1882). White. Ha—Strong grower, but too late.

Jean Sisley (1882). Bright scarlet.

Jennie Parker. Dark pink, changing with age to light pink.

Jewell (1893). Delicate pink. Large flower. L—Not yet in commerce.

J. J. Harrison (1886). White, marked delicate pink. L—Bursts somewhat, is still a popular "fancy," and largely grown; S—Fine color, inclined to burst; He—Good, but bursts some; Ha—Popular, rather late.

John McCullough (1886). Red. Ha—Does not bloom continuously enough for trade use.

John Thorpe (1892). Pink.

Joseph Perkins (1884). Dark pink.

J. R. Freeman (1890). Light crimson. L—Not so bright as Coronet, weak stem; S—Good flower, weak stem; He—Good flower, weak stem; Ha—Very good here, large and fragrant.

Juliet (1884). White, lined red.

J. Y. Munkland (1883). Bright scarlet. Kaiser Wilhelm (1887). Purple.

Karto. Yellow striped with pink.

Katharine Storrs (1893). Parti-colored. King of the Crimson (1876). Crimson.

S—Run out; D—Discarded; Ha—Discarded. La Belle (1870). White. Tall grower.

Lady Chatham. Carmine flaked maroon.

Lady Emma (1875). Scarlet. S—The variety grown for the New York market under this name does not seem to be the same as the one sent out by Starr, and which has now run out; Ha—Free bloomer, but small, very like Portia.

Lady Martha (1893). Penciled scarlet and white.

Lady Maude (1887). White.

Lady Rachel (1891). Purple. D—Have used it for stock, but the color is not desirable.

La Favorite (1884). Rosy carmine.

L. Purite (1866). Dark pink. S—Superseded by Thos. Cartledge; D—Run out; would still be valuable if preserved its early constitution; Ha—Run out, not grown now.

Lavinia (1892). Scarlet, spotted with white. Large flower.

Leon Gambetta (1892). Scarlet. Ha—Very double, bright color, very vigorous, not yet fully tested.

Lieut. Gov. Sheehan. White.

Lillian (1878). White, striped crimson. S—Run out.

Lizzie McGowan (1878). White. L—Has won its way into favor as a profitable white to grow, sells well; S—Strong grower, good; He—The only white. D—Does not do well here; Ha—Good, large and free.

L. Lenoir (1868). Crimson.

L. L. Lamborn (1888). White. L—One of the most profitable whites to grow in some localities; S—Dwarf habit; He—Good in some places; Ha—Large, pure white, but seems to need more heat than other varieties.

Logan (1886). Light red.

Louise Porsch (1891). Similar to Buttercup. L—Not so good as Buttercup. He—Good flower, weak stem; Ha—Good color, but wants substance and is inclined to burst.

Lucia (1890). Rose pink.

Lucy May (1892). Pink. Ha—Very robust, but color not desirable.

Lucy Singler (1878). Bright pink.

Lulu (1885). Red and pink striped.

Lydia (1887). Yellow, striped red. S—Run out.

Lyon's White (Syn. of Edwardsii).

Mabel (1886). Light shell pink. Ha—Too small, and not a constant bloomer.

Majesty (1892). Rich dark pink.

Marquis of Lorne (1884). Scarlet.

Mars (1884). Bright scarlet.

Marshall P. Wilder (1884). Red, striped with very dark crimson.

Marvel (1892). Dark pink, shaded creamy white or pale yellow.

Mary Anderson (1886). White. Ha—Bursts badly.

Maud Granger (1886). Rose. Ha—No good with us.

May Flower (1887). Salmon pink, striped on a lighter ground. Ha—Very large and free, but an undesirable color for commerce.

May Queen (1884). Dark pink. L—Bright pink, good grower; D—Flowers small and thin, color too dull, plenty better; Ha—Fine for spring flowering, on into May and June.

Metecor (Syn. of Philadelphia).

Miranda. Purple.

Miss Moore. White. Ha—New, not yet tested.

Miss Joliffe (1864). Delicate salmon. S—Run out; Ha—Small, discarded for Daybreak.

Millie. Carle. White. He—Superseded; Ha—Not a perpetual bloomer.

Mme. Diaz Albertini (1893). Delicate flesh pink. D—Strong grower and free bloomer, with a large full-centered flower.

Mme. Gobet. Nankin yellow; novel color.

Morning Ray (1890). Similar in color to Century.

Motor (1890). Salmon, marked and dashed with red. Ha—Good grower, but doesn't take commercially.

Mrs. A. Rolker (1884). Salmon.

Mrs. Carnegie (1886). White, striped bright red. L—Still popular as a "fancy,"

*Portia.**Emily Pierson.*
*Brutus.**Fred Dörner.*

GROUP OF SCARLETS

*Golden Gate.**Golden Triumph.*
*Blizzard.**Buttercup.*

GROUP OF YELLOWS.

bursts somewhat; Ha—Bursts too badly.

Mrs. Cassell (1886). Blush rose.
Mrs. Cleveland (1887). Pink. L—Superseded by Angelus; D—Discarded, others better.

Mrs. Edwin Lonsdale (1892). Deep pink. Ha—Strong but dwarf, poor habit, might be good in pots.

Mrs. Elizabeth Reynolds (1893). Clear bright pink. D—Large flower, good stems, strong grower—flower a remarkable keeper.

Mrs. Ferdinand Mangold (1884). Salmon. He—Liked in some places; Ha—Very strong, good color.

Mrs. Fisher (1890). White. L—A favorite white in many places; S—Strong grower; He—Good flower, weak stem; D—Poor grower, bad flowers, curled and knotted—does not seem to suit our locality; Ha—Does not do well here; seems to need a heavier soil.

Mrs. Garfield (1886). Light pink. Ha—Strong grower, but late, and does not bloom continuously.

Mrs. Harris (1883). White, with pink blotches in the center of each petal.

Mrs. Harrison (1891). White, faintly marked with delicate purple. D—Poor flower, discarded.

Mrs. Henry M. Stanley (1892). Orange, slightly tipped with bright red. Sport from Buttercup. L—Promises to be a useful variety, fragrant; S—Strong, very large, best of its class.

Mrs. J. B. Perkins (1885). Red.
Mrs. John W. Colflesh (1893). Bright delicate pink. L—A cheerful color, not yet in commerce.

Mrs. Lemuel Fawcett (1890). Delicate shrimp pink. Ha—Good color, good habit, free bloomer.

Mrs. McKenzie (1878). Bright pink.
Mrs. Robt. Hitt (1892). Pink. Long stemmed, free. L—A shade or so lighter than La Purite. Petals serrated; D—Excellent free bloomer, with long stems; Ha—Good, free bloomer.

Mrs. Skinner.

Nellie Bly (1891). Salmon pink, striped and splashed red. L—Not so full a flower as Casar, similar in color and markings; He—Too much marked; Ha—Discarded.

Nellie Lewis (1891). Light pink, striped with a darker shade. A sport from J. J. Harrison. L—Much darker than Harrison and inclined to burst; S—Good color, strong grower; He—Pretty good; Ha—Very good of its class.

New Jersey (1893). Red. S—Fine color, strong grower.

Ocean Spray (1892). White. Ha—Not equal to other standard whites.

Oddity (1893). Pink ground, shaded scarlet.

Ohio (1891). White. Ha—Discarded.
Old Gold (1889). Bronzy yellow. Ha—Novel color, but not productive, discarded.

Old Rose (1893). Salmon pink or "old rose" color.

Oona (1892). Dark pink.

Orange Blossom (1892). Marked similar to Dawn, but the colors or shadings are more pronounced and the flower is larger. L—More graceful in form than Dawn, deeply serrated; S—Fine color, strong, better than Dawn; Ha—D—Not care for it, doesn't open well with us.

Orient (1886). Crimson. Ha—Fades too quickly.

Othello (1884). Deep crimson.
Paradise (1892). Bright red, fragrant.
Patti (1891). White, marked with carmine.

Paxton (1886). White, striped scarlet. He—Superseded; Ha—Good variegated form, but small.

Peachblow Coronet (1886). Similar

to Hinsdale in marking. Larger flower. L—Neat flower, white, shaded or freckled with light red, serrated; S—Strong, good color; Ha—Good flower, good habit, medium size.

Pearl (1892). White, faintly tinted. L—Large flower, white, tinted, petals incurved; S—Strong, very large flower; Ha—Very large and productive.

Peerless (similar to Edwardsii). S—Run out.

Peter Henderson (1880). White. L—Not grown very extensively nowadays; S—Run out; D—Shy bloomer, with straggly habit, discarded; Ha—Discarded.

Petunia (1884). Similar to Hinsdale, but deeper colored. He—A burster.

Philadelphia (1878). Light red. L—Superseded by Portia; S—Run out; Ha—Too small, not bright enough.

Pink of Perfection (Syn. of J. J. Harrison).

Piru (1892). White.

Pomona (1892). Crimson. Ha—Promising, but there are too many dark ones, which are not so salable as lighter colors.

Portia (1884). Bright scarlet. L—Best scarlet in general cultivation; healthy grower, upright habit; S—Best of its class; He—Hard to beat; D—Small flowers, but color excellent; Ha—Still a good scarlet, free but flowers small.

President De Graw (1867). White. L—Not much grown; S—Run out; He—Superseded; D—Too spindling, now discarded for later varieties, plenty better; Ha—Discarded for newer sorts.

President Garfield (1882). Scarlet, similar to Robt. Craig. S—Strong, good color, late; He—Superseded; D—Still good but late. Seems to transmit a tendency to late blooming when used in breeding. Ha—Good, strong grower, but late.

Pride of Essex (1893). Yellow ground, blotched and striped scarlet.

Pride of Kennett (1888). Crimson. S—Color good, strong grower; D—Poor grower in this locality; Ha—Good, but short stems, best in pots.

Pride of Penshurst (1884). Bright yellow; Ha—Poor for forcing.

Princess Louise (1881). Rose color.
Purdue (1893). Deep pink. D—Very brilliant, fine keeper.

Puritan (1892). White. L—Pure white, healthy grower. Not so large a flower seen so far as exhibited by the originator; S—Strong grower; He—Good strong grower; Ha—Good, sure to lead among standard whites.

Purple Beauty. Purple.

Purplea (1889). Purple. He—Color no good; Ha—Discarded.

Quaker City (1886). White. L—Dropped out; Ha—Flowers best in spring.

Queen's Scarlet (Syn. of Portia.)

Ramona (1892). Dark red striped with white.

Red Cross (1891). Bright red. L—Large red, sometimes comes first class; D—Good, but not equal to Fred Dorn; Ha—Not quite bright enough.

Robert Craig (1887). Red, rather late. S—Same as Garfield; He—Superseded.

Roi des Violettes. Purple.

Romance (1892). Bright red.

Rosalind (1884). Silvery pink. S—Strong grower, color good.

Rose Hill (1880). Dull salmon red. L—Dropped out.

Rosemary (1889). Pink. Ha—No substance; too flimsy for trade use.

Salmon Queen (1893). Delicate salmon. L—Not in commerce; D—Good flower, true salmon, does not burst, strong grower, similar to Daybreak.

Sambo (1883). Very dark crimson.

San Mateo (1891). Light red, large petals. D—Similar to Fred Dorn.

Scarlet Gem (1886). Scarlet. L—Superseded by Portia and several other reds. S—Run out; D—Good summer grower, excellent out of doors, looks like a summer pink; Ha—Disappointing—no good with us.

Scarlet King (1887). Scarlet.

Scarlet Queen (Syn. of Portia).

Scarlet Ray (1893). Scarlet, striped, distinct from American Flag. Sport from Portia.

Seacanus (1876). Carmine. Ha—Run out, discarded.

Sea Foam (1881). White. D—Discarded.

Sea Gull (1893). White. L—Not yet offered for sale; D—Good, but late.

Sea Shell (1893). Delicate pink on edge of petals, shading deeper to the center. L—Not yet offered for sale.

Seawan (1886). Crimson. S—Run out.

Secretary Blaine (Syn. of Mrs. Carnegie).

Secretary Hunt (1886). Deep crimson.

Secretary Windom (1886). Scarlet.

Sensation (1886). Yellow, with faint red stripes. Ha—Strong grower, but not a continuous bloomer.

Shellflower (1890). Pink. Ha—Discarded, too late.

Silver Lake (1884). White. Ha—Superseded.

Silver Spray (1889). White. L—The most popular white in some localities. Inclined to burst; S—Strong grower, bursts some; He—Good; D—Seems to run out, but has been largely used for stock; Ha—The best white with us.

Snowball (1886). White. Ha—Superseded.

Snow Bird (1891). White. He—Superseded; Ha—Lost.

Snowbound (1886). White.

Snowden (1879). White. L—Still grown here and there on account of its free blooming qualities. Flowers rather small; S—Superseded by better whites; Ha—Discarded, too small.

Snowdrift (1892). White. Ha—Small, a free bloomer, but of no great value.

Snow Flake (1884). White.

Snow White (1886). White.

Spartan (1893). Deep carmine. D—Rather dwarf, very prolific.

Sport (Syn. of Emperor of Morocco).

Springfield (1876). Rosy pink.

Starlight (1888). Light yellow. L—Sport from Hine's White, more inclined towards yellow than its parent; S—Run out; D—Late, discarded; Ha—Pale yellow, good flower.

Sunflower (1892). Yellow striped red.

Sunrise (1885). Yellowish salmon, marked with red. L—Not often seen; S—Subject to disease; D—Good grower, but color not very attractive.

Sunset (1887). Salmon, striped with yellow.

Tecumseh (1887). Red.

The Bride (1889). White.

Thomas Cartledge (1892). Dark pink. L—Best of the La Purite type; S—Fine color, strong grower.

Tidal Wave (1887). Dark pink. L—Still has a place among dark pinks; S—Dwarf, fine color, strong grower; D—Good, very free; Ha—First class in every way.

Uncle Sam (1886). Deep crimson red. Ha—No good commercially.

Venus (1878). Light yellow, striped with carmine.

Victor (1887). Red.

Volunteer (1888). White striped rose.

Vulcan (1892). Crimson.

Wabash (1893). Bright crimson. D—Very strong, free, fine.

Wanderer (1890). White.

Wancta (1891). White. L—Good

*Tidal Wave**Thomas Cartledge.*
*Wm. F. Dreer.**Angelus.*

GROUP OF RED VARIETIES.

*Aurora.**Fred Creighton.*
*Daybreak.**Grace Wilder.*

GROUP OF PINK SORTS.

shape, not quite large enough; S—Flowers small, continuous bloomer; He—Superseded; Ha—Too small.

Washington (1865). Red striped with black. Ha—No good for cut flowers.

West End (1885). Dark pink. Ha—No value commercially; bursts badly.

Western Pride (1893). White, striped bright scarlet. D—Lovely flaked variety, fine keeper.

White Beauty (1893). White.

White Cap (1892). White.

White Dove (1892). White. L—Suggests De Graw. Somewhat of an improvement on that good old sort; D—First class flower, good bloomer, fine stem, inclined to branch, suits our locality; Ha—Good, suits our locality, likely to lead with us.

White Gem (1888). White. Ha—No good commercially.

White Grace Wilder (1888). White.

White La Purite (1875). White.

White Wings (1891). White. D—Free bloomer, excellent for cutting or pots; Ha—Good, but not in all localities.

Wide Awake (1892). Dark red.

Wm. E. Rowland (1886). Pink. L—Not much grown, too late; D—Shy bloomer.

W. F. Dreer (1890). Pink, deeply fringed. L—Rather dark pink, deeply serrated, often comes quite large; S—Strong grower, large flower; He—Too late; D—Color not desirable—too dull; Ha—Large, not free enough, color like Tidal Wave.

Wm. Scott (1893). Wilder pink. D—Fine in every respect.

Wm. Swayne (1888). White. L—Dropping behind; S—Superseded; He—Superseded; D—Discarded, flowers split; Ha—Superseded.

W. W. Coles (1889). Light scarlet. L—Out of the race; Ha—Superseded by others, too light.

Zebra (1893). Particolored. S—Same as Caesar; Ha—No value commercially.

The following new varieties have been registered with the American Carnation Society since the above list was compiled:

By Fred Dorner:—Mme. Diaz Albertini, light pink; Mrs. Elizabeth Reynolds, pink; Richmond, dark rose; Esther, light pink; Blanche, white; Spartan, carmine; Wabash, crimson; Lafayette, carmine.

By C. J. Hattel:—Striped Unique, pink striped white; J. W. Wolfskill, rose flesh; Sirius, deep scarlet; Louis J. Hattel, white, clove-scented; Mrs. Lonsdale, rosy flesh, blended lighter shade; Leon Gambetta, deep scarlet.

By Martin Cummings:—Gov. Russell, white.

By A. E. Hempstead:—Laura Hempstead, bright pink, dwarf.

By John Bros:—John R. Kennex, variegated; Wm. Pierce, Sr., similar in color to Aurora; Josiah Eaton, Jr., white; Pink Beauty, lighter than Aurora.

By John McGowan:—Senator McPherson, red.

By J. G. & A. Esler:—Rosalie, pink, shaded white.

By Essex Heights Floral Co.:—Clara Mawer, fringed white; Ruth Churchill, deep crimson.

By Messmore & Turner:—Minerva's Pink.

By George Creighton:—Netherwood, scarlet; King Dianthus, white, tall; Rob Roy, red; Village Maid, blush, marked carmine; Crimson Coronet, crimson; Peachblow Coronet, peachblow color; White Coronet, white.



SWEETBRIER.

By R. E. Shuphelt:—Euphemia, a sport from Indiana, light pink; Maria, resembling Garfield.

By F. A. Blake:—Unique, white striped with rose.

By Edward Swayne:—Ophelia, pink, shade similar to Grace Darling; Sweetbrier, pink, a shade between Daybreak and Edna Craig.

Seasonable Hints.

Plants that have been growing vigorously and giving an abundance of bloom under good management will need some stimulation at this time. While the carnation is not to say a gross feeder, it certainly is very grateful for an abundance of plant food ready formed, within easy reach of its working roots. We have always advocated a highly manured soil to begin with, and applications of various top dressings throughout the winter, provided the plants are in good health and in active growth. It would

be very detrimental, we are quite sure, to overfeed any plant in poor condition. And certainly a waste of material if the plants are growing where there is not sufficient heat to properly assimilate the food already in the soil. We are taught that the most active growth of plants (speaking in a general sense) takes place at the temperature of 80°. But of course such a degree of heat must be accompanied first by an abundance of light, second by plenty of moisture, and third by a large supply of available plant food. We say then there is no harm (in fact there is a decided benefit) in allowing the mercury to run up to 80° or even 90° when the sun shines brightly. This induces a vigorous growth, which must be met by proper feeding at the roots. The demands on the soil of a greenhouse are greatly intensified in comparison with the soil of a field or garden. Even if highly manured to start with the available plant food is exhausted in a short time and the plant must then, to use a vulgar phrase, "hunt for a living," a con-

*Pride of Kennett.**Anna Webb.**J. R. Freeman.**Crimson Coronet.**Anna Webb.**Ferd. Margold.*

GROUP OF CRIMSONS.

*Nellie Bty.**American Flag.**Chester Pride.**J. J. Harrison.*

GROUP OF VARIEGATED SORTS

dition not favorable to the highest development or the greatest production.

Liquid manure stands at the head of the list as an application to supply this active plant food to the soil. On a small scale fresh manure of any description can be put into a phosphate sack and both sack and manure placed in a large barrel, which is then filled with water. The liquid may be dipped from this and applied with a watering pot. It should be diluted to the color of weak tea and applied in not too large doses at one time. On a large scale water tanks are used with pipes connecting with the water supply, from which it is run on with the hose. The handling of the manure and cleaning the barrel or tanks is disagreeable and dirty work, but when judiciously applied it handsomely pays for all trouble and outlay. A liquid manure may be made by dissolving an ounce of sulphate of ammonia in four gallons of water, and this will be improved by adding a like quantity of nitrate of soda. We prefer, however, to apply these salts directly to the soil between the rows of plants and have found them useful if given in small quantities at a time. Unleached ashes are highly beneficial as a top dressing. A half bushel to a house 20x60 is a fair dressing and may be repeated every two weeks. Bone black can be used as a top dressing, 25 pounds to a house of above dimensions being enough for one time. Bone meal and bone black are most excellent fertilizers for carnations, but are usually mixed with the soil. Stable manures we would not recommend as a top dressing, the objections being that they make a very good harbor for insects and are apt to keep the soil too wet. Well rotted *fine* manure and sheep manure put on as a light dressing may prove to be very good.

This matter of applying fertilizers to the soil is a subject that calls for the greatest judgment. We would earnestly suggest that the experimenter use great caution at first in the use of these chemical fertilizers else he may meet with ruinous disaster. Of the chemical manures mentioned sulphate of ammonia and nitrate of soda supply nitrogen; ashes, potash and bone, phosphoric acid. These three ingredients being the *chief* materials demanded from the soil for the building up of the plant; but in different proportions according to the plant supplied. A true analysis of the plant and of the flowers of the carnation may give us a clue as to the proper substances to be applied to the soil for its perfect development. This may lead to the special preparation of a manure highly beneficial, as has been the case with special manures now on the market for field crops. In this we have a work for some of the experiment stations who will no doubt gladly assist us. W. R. SHIELMIRE.
Avondale, Pa.

Our Telephone.

"Hello central, is that line out to Bay-side, N. V., working all right this winter?"
"Yes, do you want to talk to Mr. Taylor?"

"Yes, if you please."

"All ready—here he is."

"Good morning, Mr. Taylor. We are looking for some carnation lore for our special carnation number. You have done considerable in the carnation line, can not you give us a little of your experience?"

"Yes, I used to grow a good many, but I have got about through with them."

"How's that?" Don't they do well with you any longer?"



OPHELIA

"Well, it's not exactly that. To make a business of carnation growing a man should have his houses built especially for that purpose. I believe a man should devote himself to one thing as much as possible. Now, roses are my specialty, and just as soon as I get the last of my old houses replaced by new rose houses I shall drop carnations entirely. It is a fact, though, that carnations have not done as well with me for the past two years as formerly. Up to last year I was never troubled with fungus. But I got some plants from Pennsylvania which developed it. There were not more than a dozen plants altogether which were infected. I got a little of it on McGowan. I tried Antipest and sulphuring the pipes, treating it as I would any other fungus, and so far have kept it down."

"Do you think this fungus is apt to become a general pest?"

"Great care in propagating should be observed, otherwise I believe we are liable to get this thing fixed. I am afraid there may be some trouble at the roots, as appears to be the case with violets, and that this fungus is the result, but this is all surmise of course. I notice that all the old varieties are perfectly clean and healthy. It is simply those finer kinds that have been recently originated that are liable to fungus attacks. It is a question in my mind if this is not produced by the present methods of cultivation, high temperature and unnatural conditions in forcing. We must remember that the carnation is almost hardy, and with a temperature of 40° to 45° at night and in bright weather not over 75° to 80° during mid-day we ought to get strong healthy growth. In a cold frame I think you would find the carnation would be free from disease."



HELEN KELLER.

"But with the prevailing methods of carnation growing—55° or more at night, high temperature in day time, frequent syringing, etc.—of course you get large flowers that way, but it is a question in my mind if carnations are going to stand it. We are liable to run the stock out. It is like everything else, we are never satisfied, but want to overdo."

"Can you suggest any remedy?"

"I find that Antipest is certainly a benefit, but no plant can be healthy when attacked by fungus. This is only an indication of previous weakness. To keep plants healthy, whether roses, carnations or anything else, we should depend upon preventives, not cures. In

other words, common sense should prevail and the study of plants should be carried on by every grower so that no matter what the temptation is nothing shall be done which will weaken the constitution of the plant. Stock has been weakened by overpropagation and we have got to take measures to strengthen the constitution, otherwise we shall run the carnation out, and it is altogether too fine a flower to be lost by such means.

"It seems to me from observing the market in New York that growers of carnations should plant more reds and whites and only a limited number of pink, for although a very rare color in carnations till lately yet any one visiting 34th

Street Market or any of the wholesale establishments will find now 75 per cent of pink carnations. The consequence is that crimson, white, red and yellow bring a higher price than pink this winter. This reminds me that we as a profession are a good deal like sheep, we follow a leader and all jump together and we are always overdoing something. If growers would make it a rule to grow a good variety of color with white predominating they would find it more profitable than going into one kind or color. Fashions change and the demand for certain colors changes. The demand one year is no reliable sign for the next year."

"Can you give us any of your observa-

tions on special varieties that you have grown recently?"

"Although it is not all that is to be desired in color and splits badly, Golden Gate is considered a great advance in strength of constitution and floriferousness over the older ones in that color, and if the growers who are at work on new varieties would take that as a parent and try to work in some other yellow with larger flowers they might possibly produce a race of yellows as profitable to grow as Portia or McGowan. The habit is good, the stem long, strong and erect, and the foliage is of that fine healthy blue color which is characteristic of all carnations which have so far proved good commercial varieties.

"Golden Triumph is a freer bloomer and not much beneath what we see in Buttercup in size. It is far more prolific, but its bad fault is in not throwing up long stems and in being constitutionally weak.

"Crimson Coronet I think well of. It is a very fine crimson carnation and seems healthy, strong and floriferous.

"Peachblow Coronet is very similar to old Hinsdale, not so large and color more pink and less red. I do not consider it decided enough to have any value for commercial purposes."

"By the way, Mr. Taylor, you were at one time a very large grower of Hinsdale, why did you drop it?"

"It didn't sell well towards the last. The plants were not as healthy and did not have the same stamina as in former years. The market didn't seem to care for that color any longer. A more decided color was wanted."

"Have you tried Daybreak?"

"Yes, and it is probably the finest carnation introduced since Buttercup. The color is that beautiful delicate pink so much sought after by ladies. It is perhaps the most delicate color in existence, and when combined with other flowers or alone with green is wonderfully effective, especially in the evening, and there has been no carnation so far in the New York market which sells so readily or commands so high a price. As to its growing qualities and health I can not speak with confidence as my plants were put in late and were not given a proper show."

"On the whole there are so many good pinks now that it is pretty hard to say which is the best. Grace Battles I tested last year by Mr. Lonsdale's request and found it good. That and Edna Craig are, as our friends in Philadelphia say, 'A great pair.'

"One thing that probably all carnation growers have noticed is that with certain soil, climate, etc. different varieties of carnations do better, are healthier and produce more than others.

"Now, I believe that growers of carnations should always keep up to the times and try new ones as they appear, but only grow in quantity those varieties that have done well with them before, only taking up the new ones after a careful test.

"I think it is a good plan to reserve a good bed as a testing bed and then every year try the different kinds. A man carrying out a plan of that kind will find what suits his locality, etc., and will at the same time keep abreast of the times and does not risk much money in testing new varieties. Carnations are a good deal like potatoes, they run out and in order to keep up something of that kind is required. Varieties extensively grown 15 years ago are not seen to-day in commerce.

"I would further say that I have never known a year in which roses have kept healthier and grown more freely than this season. I had one house that produced those encysted worms last year. I removed the houses, burned up the plants, removed all the soil as far as I could, oiled and washed the benches. This year there is no sign of the worms in that house and it is doing as finely as any house I ever saw. There, do you think that is enough for this time?"

"Yes, that will do first rate. Much obliged. Good bye."

The Modus Operandi of Raising Seedling Carnations.

BY EDWIN LONSDALE.

The raising of seedling carnations is one of the most fascinating pastimes the experimenter can engage in. It is fraught with hopes, fears and disappointments, and frequently, to the severely practical man, apparently unjustifiable elations. There is a number of practical florists, and some amateurs, engaged in the raising of seedling carnations, with the view



Fig. 1.

to their improvement, and there are many others who would take up this laudable undertaking, if they knew just where to begin. It is for the latter class that this article is prepared.

There is just as much thought exercised by the enthusiast to mate the different varieties of carnations with the hope of producing desired results as there is on a stock farm, whether the object in view be speed, style, or endurance in the horse, or beef, milk or general utility purposes in the cow. Whether all the horses we



Fig. 2.

now have, be they draft, hackney, or Arabian, originated from one common source, and it is claimed that they did, certain it is, that by careful selection and judicious breeding, the various breeds and types are now quite clearly defined. That there are the same opportunities in the

carnation—as we find it to-day in our greenhouses,—to improve the varieties we have, and establish new types, I have not the slightest doubt. There is ample proof that the everblooming varieties are a development (evolution) from the hardy garden carnations of Europe. Until quite recently no very definite ideas were car-

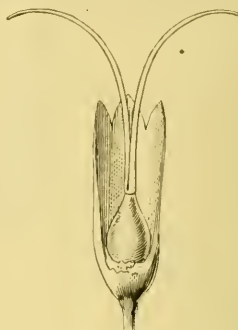


Fig. 3.

ried out in the line of improvement in this class of flowering plants, but that something has been accomplished within that time, every practical person will admit.

When Grace Wilder was first disseminated it did not attract the same attention that it did some years later. Its color brought it into demand, and growers everywhere had to have it. Everyone, however, could not grow it successfully. Then it was that raisers of seedlings undertook to remedy some of its defects.



Fig. 4.

The results are such good kinds as Grace Battles, Edna Craig, William Scott, and some others. Now let us take in hand the improvement of Portia, Buttercup, Silver Spray and all along the whole line. It may not be out of place here to give an account of some of my own experiments. It was in 1885 or 1886 that I undertook to improve Grace Wilder. About that time the Peter Henderson was one of the favorite whites. This was made the seed parent and Grace Wilder furnished the pollen. Out of the batch one was selected, a beautiful delicate pink in color but there were not sufficient petals to make it quite satisfactory, as a commercial variety. In 1888 pollen from this seedling was used on Hime's White, and that is the pedigree of Grace Battles. I am not sure of the origin of Grace Wilder. It was raised by Jos. Tailby. Peter Henderson was produced from seed by John Charlton, Roches-

ter, N. Y., who obtained the seed direct from Alegatiere, France. Hünze's White was a self sown seedling which grew where some European varieties had been growing the year before. I have some seedlings now flowering for the first time, the result of a cross between Caesar and Grace Battles. One is similar to—but better I



Fig. 5.

think—than Peter Henderson, another white, with a few faint pencillings of red and another is almost the exact counterpart of Caesar, (the seed parent) in markings and color, and the last and best seems to be intermediate between the two. The flowers are marked the same as those in Caesar, but the colors are those of Grace Battles, and like it the petals are broad, but at present the indications are that the flowers will not be so large as are the flowers of Grace Battles.

As a rule, the pollen parent has the most influence on the offspring as regards the color of the flowers. This was very forcibly impressed upon me in the year 1882, when only one cross was made, and that between Peter Henderson and James Madison; the latter was the pollen parent. In color it was similar to Sunset, but the red was more inclined to be scarlet, and the colors were altogether brighter. There



Fig. 6.

were about thirty-eight seeds matured, thirty-five of which germinated and grew to plants, and in due time, flowered, all but two were double, and every one, in color was similar to the pollen parent, both in markings and colors, yet there were no two alike.

Pedigree appears to have been a much abused term, frequently, in the seed trade. Selection would seem to convey the more correct idea. In the matter under consideration the pollinate (male) and pistillate (female) parents of a seedling, with ordinary care, can be stated with almost absolute certainty. In the vegetable kingdom, generally, however, Mother Earth is the real material parent, and that is the reason why I hesitate, in speaking of the pedigrees of varieties, in the terms of father and mother, though it is generally done, by those who are engaged in this pursuit.

It is interesting to know the origin of meritorious varieties, not for the purpose



Fig. 8.

of repeating the experiment, for it is ten thousand chances to one that the results would be the same, for there are rarely or never, two varieties that might be pronounced identical even from the same seed pod. But it is so much knowledge to our credit, and it may act as a guide, for future operations. Though he who thinks he will electrify the floricultural world by his achievements after he has learned the pedigrees of the best sorts by heart, may be disappointed, yet such is among the possibilities. A novice might effect a cross between two varieties without any idea as to what the effect would be, and the result might be greater than that of a person who has been experimenting with a definite object in view for years. This is where that element comes in which is known as luck. Yet there are very few, I venture to say, who have ever indulged in this mild form of excitement who would throw aside system, no matter how fortunate some one else may have been, in a haphazard way—and depend entirely upon luck. I believe in pedigrees, for by careful records, with close observation we may note the influence of varieties as breeders; some may be much more potent than others.

In explanation of the illustrations, Fig. 1, is a carnation flower showing the pistils prominently, which may be called the pistillate, seed or female parent, all of which are synonymous terms. Figure 2 is a flower which shows the stamens conspicuously, these furnish the pollen, with which to fertilize the pistillate flower. Generally speaking a carnation flower may be made either the pollen or the seed parent, as the operator may determine. Though there are exceptions to this rule. I found this out some years ago when hunting among a lot of flowers of the variety Duke of Orange for pollen, but not a grain could I find. On the other hand I have operated upon varieties which did not produce perfect seeds.

In figure 3 we find a representation of a flower ready to be operated upon. The

pistils have been carefully removed with the finger and thumb, part of the calyx has been cut away by a sharp pair of scissors, showing the ovary with the pistils standing out above.

Figure 4 gives the stamens and pistils. The stamens are the more apparent, and shows the pistils before they have developed far enough to be fertilized.

Figure 5 is similar to the last. On close examination it will be seen that some of



Fig. 7.

the pollen cases have burst, thus freeing the meal-like pollen, which may be carried by a camels hair brush, to which it readily adheres, and applied as seen at figure 6, where the operator is in the act of applying the pollen. Camels hair brushes may be obtained from any drug store at trifling cost. Where there is any choice it is best to select the darkest brushes, as the pollen grains are more readily seen on this material than when it is of a greyish color, thus giving the practitioner a better idea what he is doing. In all our opera-

tions there is always a danger present and a possibility of self fertilization. To avert this, it is better to remove all the petals and stamens at an early stage of the flower's development, before the stamens have had time to ripen its fruitifying grains, thus destroying a possibility of frustrating our plans.

Figure 7 gives an idea how the seed pod should look when it has advanced somewhat, though this cut is more to show the manner of keeping a record of the cross made. Some prefer to mark the tag only with a number and to keep in a note book the full particulars. But if the note book happens to get lost, the numbers are of very little value. A full record on the tag is best, I think, then there is little or no danger of losing it. It is cheaper to buy the little tags than to make them. They are sold with strings already attached, which renders them easily adjusted, and gives the whole operation a neat and workmanlike appearance. In recording the cross, the name of the seed parent comes first. Whether it is correct to make a plus mark or a multiplication mark (X), I have not been able to determine. We may multiply varieties without adding to their quality. Each one may make the mark which suits him best.

Figure 8 illustrates a flower four inches in diameter on paper. We do sometimes hear of them being that size in reality but so far these very large flowers burst the calyx. The flower shown has sufficient petals for all practical purposes. What we have to bear in mind in our breeding is to select parents with length and breadth of petals—and not too many of them.

As to types and forms of flowers there will always naturally be a difference of opinion. If Lizzie McGowan with all its other good qualities, had the character of petal, which had a tendency to stand out instead of recurring, it would be much more valuable. Those varieties which incurve are not popular with the practical flower buyer, because they have what is termed a sleepy look. But whether they are really poor keepers or not I do not know. However it is best when selecting parents, to avoid those with as few defects as possible.

Carnations in Michigan.

It will be noticed, on reading the carnation list with the accompanying opinions from experts, that the effect of locality is enough to render a variety valuable in one place almost worthless in another.

The diversity of opinion between eastern and western growers is most remarkable, and there is little doubt that variations of soil must be responsible for changes in growth and constitution.

Among western carnation growers Mr. Jas. G. Ilancock of Grand Haven, Mich., is very well known, and his experience with some popular varieties is very interesting. Grand Haven is a famous celery district, and the soil is, with little exception, either extremely light and sandy, or black swamp muck. It is a very marked contrast with the heavy stiff sort of the Pennsylvania "carnation belt," and it is not surprising to find that as a rule Chester County varieties do not succeed here.

Buttercup is little grown though the west, so one of the first questions asked Mr. Ilancock was whether he grew this variety.

"Yes, I have grown it for about eight years unsuccessfully, and was coming to the conclusion that our locality did not suit it. Last summer however, I found a small patch of stiff soil, what we call

New Jersey clay, on our place—an unusual find, most of our soil being very light and sandy; Buttercup was planted out in this clay, doing finely all summer. When the plants were taken inside they were planted in a mixture of this clay with celery muck and they have succeeded this winter as they never did before."

"Certainly they look very flourishing. It seems hard to find a satisfactory yellow; do you like Louise Porsch?"

"It does very little with me, and the flower is undoubtedly flimsy in every way, does not last, and bursts badly. I find the same fault with Golden Gate, though it is a nice color and good grower."

"I see you try Golden Triumph; how do you like that?"

"The flower is too small, and it is very poor in shape, doesn't seem to open well. I am inclined to think that unsuitable soil has something to do with the bursting of the calyx. I notice that in some places Fred Dörner is remarkably free from any tendency to burst; with me it bursts badly."

"You have a magnificent show of Daybreak; evidently it is at home in your district."

"Well, we have good reports of Daybreak from almost all sections. Its habit seems perfect in every way, and it naturally forms long single stems, requiring very little disbudging. Nancy Hanks, which is a very little deeper in color, shows rather brighter at night; it is very popular in the market."

"Aurora looks well with you."

"Yes, it is a strong grower, with a fine habit; one fault I find with it is that the texture of the flower is flimsy; however, it does not burst the calyx."

"Do you grow Wilder much?"

"Not nearly so much as Daybreak. It used to make a good growth with me, but was a poor bloomer. However, since I have tried it in the clay mixture used for Buttercup it has done well, very much better than in our ordinary sandy soil."

"How about whites—what variety has proved most satisfactory with you?"

"Silver Spray so far has been our best white. It always comes with good long stems, and is a good grower. I am trying Puritan, and think it very promising; it has a good substance, and lasts so well."

"The fine lasting qualities of Puritan seem generally recognized. Here is White Dove, how does that suit you?"

"It does very well, and I should give it place with Puritan among the most promising whites. It is very free, and opens well. The only complaint I make against Puritan is that it forms so many lateral buds. I find it best to remove the terminal bud, let the laterals grow."

"Lamborn does not look so flourishing as Puritan."

"It does not do well with me, whatever may be the reason. The flowers do not open well, and wither on the plant; it may be that our soil does not suit it, and it is likely that our climate is more trying to some varieties than others; we have a great deal of fog from the lake, resulting at times in continuous dark weather."

"You appear to grow few crimsons compared with the lighter colors—what is your preferred dark variety?"

"Ferdinand Mangold is our most profitable crimson, and Crimson Coronet is another good one. The last named has medium sized flowers, with fine stems. But we don't need so many dark colors; among ideal carnations of the future I consider we are more in need of a good scarlet than anything else."

"Have you made any experiments in

crosses with a view to obtaining a scarlet?"

"I made some efforts in that line during the past season, but few of my seedlings have bloomed yet, owing to their being late in planting. I have used Leon Gambetta in crossing, an extremely double bright scarlet, but the young plants have not yet bloomed."

"I have you used single flowers in your crosses."

"Yes, I used them for the first time during the past season. I had a very bright colored single, the result of a cross between McGowan and Ben Hur; this I used with Gambetta, which is, as I remarked, extremely double."

"Here is a very charming pink among your seedlings; seems a promising thing—what is its parentage?"

"It is a cross between Daybreak and Mrs. Ferdinand Mangold. You see the habit is very strongly like Daybreak, straight stiff stems and strong foliage. The color is a trifle deeper than Nancy Hanks, with a little more of a salmon tinge."

"I notice you get among your seedlings a good many of the oddities with very broad, stiff foliage; do you use them in breeding?"

"Yes, I have been trying them where stronger foliage was required, but they are apt to be less free than the grassy-leaved type, and they are very likely to transmit this fault to their progeny."

"I see you are busy propagating—what wood do you use?"

"Oh, flowering wood, exclusively; I think most growers recognize that point now."

"How about lifting carnations; do you advocate lifting with a ball, or without?"

"I certainly prefer to take up with a ball. Our soil is, as you see, very light; the plants make a great mass of fibrous roots, hindering the soil together, we could not very well shake off the soil without damaging these fine roots."

"What do you think of the plan of planting carnations out from the first in the houses where they are to remain?"

"I begin to think quite seriously of trying that plan, and avoiding the lifting from the field. The greatest difficulty would be in keeping the plants cool during the summer. It will be necessary to have the fullest amount of ventilation."

"I have you tried the short span to the south?"

"No, I have not, but I begin to think favorably of the plan, having had such good accounts of it from different sources."

"I don't notice Orange Blossom with you; we hear a good deal in its praise from some growers."

"No, it is like Dawn, which I do not care for. Orange Blossom seems a good grower, but the flowers are poor, and do not last—a fault shared by Dawn."

"I notice here a yellow that I am not familiar with."

"J. B. Jacquier, the color is all right, but the flower is small, and it doesn't open well."

"Perhaps the color might be of use in breeding."

"Unfortunately I have never yet been able to obtain pollen from it, nor have I succeeded in making it bear seed. I have been trying another yellow, Bouton d'Or, an attractive flower, but a hard thing to propagate. Starlight is always satisfactory with us."

"Tidal Wave seems to do well here."

"It is one of the very best bloomers we have, and very popular; the color is taking, and it is wonderfully prolific."

"What scarlet do you grow?"



Lonsdale.

McGowan.
E. Swayne.Van Ruyper.
Pennoek.Ward.
Herr.Chitty.
W. Swayne.

Hancock.

Lombard.
Dorner.

Taylor.

THE CARNATION ARMY.

"Oh! the brave old Duke of York,
He had ten thousand men,
He mar-marched them up to the top of the hill,
And he mar-marched them down again."

"Portia is the best, though the flower is small; Hector has been disappointing so far, though it seems to do better in solid beds than on benches, a peculiarity we have noted in Puritan. Garfield is too late."

"Have you tried Emily Pierson?"

"Yes, and I am impressed by its great similarity to Garfield both in growth and habit. It makes too many lateral buds. It is late too."

"I see you are trying Dorinda."

"Yes, it is a free bloomer, but the color is not bright enough; have not tried it thoroughly yet. Here is Peachblow Coronet, a very nice grower with medium flower, and good stem. Grace Darling fails in our soil here, but it does very well with the clay mixture. Fred Creighton does very well here, but needs a little more heat. Attraction fully deserves its name, it is an excellent and distinct color, but with me it bursts quite badly."

"Here is a good crimson, what is it?"

"Pomona, I consider it very promising, and here is another good crimson, C. J. Haettel, a very free bloomer, with slender but rigid stems. Creole is another good dark one."

"Here is an odd variegated form."

"Alessandro, it is a very good grower, but the deep crimson marking is almost too heavy. Here is rather a showy 'fancy,' Corona, buff, flaked with carmine."

"Do you grow very many striped or part-colored varieties?"

"No, though some few are regarded as standard fancies they do not equal solid colors in popularity. According to our experience Daybreak is the most popular of all 'fancies,' easily obtaining a higher market price than any of the flaked or striped sorts. Pink, in clear and delicate shades, seems always popular. I am very anxious to see a better scarlet than any we have at present; this seems even more needed than a new yellow. We get too many pink shades without enough distinction among them, and there is usually a preponderance of pink among seedlings. In this district we want varieties suited to a light soil, and many which originate in a locality where the soil is a stiff clay do very little with us."

"Your experience with Buttercup is a very strong evidence of the influence exerted by soil, and there is no doubt that some of the uncertainties of carnation growing come from that cause."

Mr. Hancock's range of houses is almost entirely devoted to the carnation. Taking into account both soil and climate it is evident that his experience with varieties will be of great value to other growers, where the same conditions prevail. It is very apparent that a variety which has originated and obtained notice in any one locality may behave in a totally unexpected manner when transplanted to

entirely different conditions. We are getting a good deal of evidence which seems to point to unsuitable soil as one of the causes of bursting calyces, though there is no doubt that many varieties are naturally disposed to this fault.

EMILY LOUISE TAPLIN.

Carnations at Madison Square Garden.

The display of carnations at Madison Square Garden was this season decidedly pleasing, both to the garden management and exhibitors, as well as to the flower-loving public, and it received frequent and deserved praise. The feature of the exhibit was the large number of seedlings, which showed decided improvement upon older sorts, and which pre-figured a development in the carnation similar to what has taken place in the rose and chrysanthemum. With new and improved varieties, improved in habit, color, size of flower, strength of stem and fragrance; and with better and more intelligent culture, there is no reason why we should not have 3 or 4, yes, 5 and 6 inch carnations on stems ranging from 2 to 3 feet in length as well as 10 inch chrysanthemums on 4 foot stems. Variety and cultivation accomplished wonders for the chrysanthemum, and variety and cultivation, when understood, will accomplish wonders for the carnation as well.

The seedlings that attracted my particular attention were those exhibited by Fred Dörner, August Jahn and John McGowan. August Jahn staged a fine collection of seedlings, many of them of unusual merit. Josiah Eaton, Jr., a fine very full, deeply fringed creamy white double flower, attracted universal attention, and was awarded a silver cup for the best seedling.

Lilian Abbe, an immense scarlet, gives much promise of proving a large commercial scarlet, which is so badly needed at present.

William Pierce is a good pink of the Wilder class, and retains its color well on the plants. The color is good, and the calyx very good.

R. H. Woodhouse, a deep crimson, struck me as being the most promising crimson sort I have yet seen. It possesses the ideal calyx, a splendid stem and fine color.

Jno. R. Rennex is the most peculiar variegated carnation yet seen; it is so strikingly odd that I cannot describe it; but it ought to prove a valuable novelty for catalogue trade.

John McGowan's New Jersey was shown in fine form, in good color with splendid calyx, and was awarded first prize for scarlets.

The Fred Dörner, an immense full double scarlet flower of good color and splendid stem, was marked by but one cardinal fault, the tendency to burst the calyx.

Edward Swayne's Thomas Cartledge was shown in good form. I am inclined to think that Thomas Cartledge will prove to be by far the best of Mr. Swayne's introductions, and will come to be a valuable commercial sort, filling the place so long occupied by Century. While most of the new scarlet sorts were marked by the weakness of the calyx, it was not so with the many new pink varieties. There were calices good and strong that showed no signs of bursting, and on stems that held aloft full double flowers $2\frac{1}{2}$ to 3 inches in diameter, of every shade of pink, from the delicate shade of the breath of morning to the brilliant tinge of the alpine glow.

William Scott, winner of the first prize, was not shown in the best condition, it having been picked 4 days previously and shipped from LaFayette, Ind.; nevertheless its even color and excellent keeping qualities won the medal, and deservedly, as the future of this variety will show. It is a large full flower, $2\frac{1}{2}$ to 3 inches in diameter, on strong, erect stems, which usually have but one bud on each stem. The flowers are held erect and the plant hardly needs a stake. The habit of the plant is slender, compact and stiff, resembling that of Lizzie McGowan. In color, Wm. Scott may be described as a giant Grace Wilder at Wilder's best. It is a non-burster, and one of the best of keepers. On November 4th I measured a single bloom of Wm. Scott, two inches in diameter; on November 24 I cut the same bloom, which measured 27.5 inches in diameter, and the pistil not yet fully developed. The flower was kept two days, then packed and laid away for a day, and when examined was evidently increasing in firmness. It was then shipped. These durable qualities are all essential to a carnation, and are here particularly described as a decided advancement of much commercial importance, qualities which will be found in many of Mr. Dörner's seedlings, notably, Mrs. Elizabeth Reynolds, Mme. Albertini, Richmond, Edna Craig, Purdue and Dr. Smart.



Lizzie McGowan.

Mrs. Fisher.

FORMS OF GROWTH

Daybreak, winner of the second prize, was evidently shown at its best, no less than four fine bunches being staged. I must confess that after a close examination of this variety growing, and at the exhibition, it has not impressed me as a variety of sufficient character and stability to hold the popular favor permanently. True, to-day it has the call over all others, and when the flower is caught at just the right stage no lovelier shade of pink or rather salmon exists, yet all the bunches showed a decided variation in color from the ideal shade to a bleached out washy tint that looked sickly when placed by side of a white flower. Again, Daybreak is inclined to be a shy bloomer, and as the flower cannot be held on the plant any great length of time I am inclined to think that it will in the end prove of less commercial importance than either Wm. Scott or Edna Craig, Mme. Albertini or Mrs. Reynolds.

Edna Craig, another of Mr. Dörner's seedlings, was shown in good condition, three fine bunches being staged, and while it failed to secure a prize, I am much inclined to the opinion that it will prove a much better variety for the grower than Daybreak. In color it is a close rival of Daybreak, the flower is much larger and like Wm. Scott, may be left hanging 10 days to two weeks on the plant without injury.

Mrs. Elizabeth Reynolds is another magnificent flower, immense in size, 3 to

$3\frac{1}{2}$ inches, of a clean bright pink color, and delicious clove scent. The calyx is remarkable in being peculiarly pursed at the points, which brace against and support the petals. It is one of the longest keepers in existence, and may be left on the plant a long time without injury.

Mme. Diaz Albertini may be described as the same as Mrs. Reynolds, save in color, which is a delicate flesh pink. It has all the good qualities and is equally as good a keeper, and will prove a formidable rival to Daybreak.

Richmond, the nearest approach to "Jack John's" ideal is an immense flower 3 to $3\frac{1}{2}$ inches, of a brilliant carmine color, borne on a very long and strong stem, 25 to 30 inches. It is a splendid keeper and a decided acquisition. Purdue, another deep pink of excellent form, stem and calyx, is also a splendid keeper. Spartan, a scarlet shaded carmine, with a full very large flower is exceedingly brilliant and attractive. Ben Hur, a soft clear pink of the Wilder type was very attractive. Salmon Queen, another of Dörner's seedlings, shown by Ernst Asmus, was marked by a delicate and even color, a bright yet soft salmon, as well as excellent keeping qualities. Ophelia shown by Edward Swayne, of the flesh pink order, was hardly in condition to judge of its true or probable merit. Grace Battles, unfortunately was not there, but Brother Lonsdale says she is a beauty, and it must be so. I wonder



Caesar, with red flower of Brutus.

FORMS OF GROWTH

if the staid old Duke is keeping back hot shot to fire at the pink carnation field just when we think we know all about the best pink carnation; and that just reminds me: What is a *pink* carnation? I see before me, Daybreak, Tidal Wave, Grace Wilder, Salmon Queen, every one of them distinct shades of color, bearing but little resemblance to each other. Yet all competing for the same prize in the *pink* class.

Should not these shades be separated into 3 or 4 classes?

Pink, the Wilder type; flesh pink, the Daybreak type; salmon pink, the Salmon Queen type; carmine pink, the Century or Tidal Wave type. If this was done would there not be less kicking about the awards, and less trouble for the judges?

Taking all in all, the carnation exhibit was a decided success, and certainly reflects much credit upon Messrs. Dörner, Jahn, McGowan and Swayne, the hybridizer whose efforts rendered the ex-

hibit possible, and I venture the prediction that the \$1,000 to be offered as prizes for carnations by the Garden management during the fall show of '93, will call forth an exhibit of increasing merit and the conviction that along with the rose and chrysanthemum, the carnation is in it to stay.

C. W. WARD.
East Moriches, N. Y., Nov. 27th, '92.

Forms of Growth.

To the retail florist it is of little consequence whether the carnation plant be of dwarf or robust growth, whether it makes many shoots or few, whether the pips are easily rooted or otherwise, so long as the flowers are of an attractive shade and form, and the stems are sufficiently long and stiff. But to the wholesale grower these qualities are but a part of the requirements to insure a variety that is to produce a profitable return.

Again, the needs of the grower will depend upon whether he grows for cut

flowers exclusively, or for plants and cuttings. To the former it is important that the plant sends up an abundance of stems of good length, bearing flowers singly or in graceful sprays. To the latter it is necessary for the plants to be of such a type as will produce an abundance of pips with which to increase his stock, and that they be of such a character as will readily take root when placed in sand. To both it is of course of equal importance that the flowers be right as to size, form and fragrance. When these various elements are combined we would expect to have an ideal carnation.

Upon examining the different varieties in general cultivation we find a wide range in their forms of growth. Taking Grace Wilder and Portia as two well-known and differing types we find in the former a much branching stem, from which spring up an abundance of erect flower shoots bearing usually single blooms. This is the most desirable character for the flower grower, and to any mind fully explains the general and prolonged popularity of this variety, notwithstanding the large proportion of poor flowers it makes during the short winter days. As a variety for the plant grower it is also good, as it makes an abundance of shoots which root fairly well. Portia, in marked contrast, makes a compact growth close to the ground, from which the stiff stems rise bearing three or four flowers. In this case the abundance of bloom makes it a profitable variety for the commercial grower, and the numerous pips easily rooted likewise commend it to the grower of cuttings. In neither of these kinds, however, do we find an ideal flower.

Buttercup in some ways may be likened to Portia, the main growth being close to the ground, although not so dense, while it also sends up long stiff stems, bearing three or more flowers. But here the similarity ends, for in Buttercup we have aside from the more attractive color a flower of good size and form that would make it desirable in any color. Buttercup has always proven profitable to the grower of cut flowers, being extremely productive and always commanding high prices, but it frequently gives meagre returns to those propagating it, as it not only gives few pips but these are often difficult to root.

In looking for an improved counterpart of Grace Wilder, we find numerous claimants, nearly all of the new light pink varieties having been compared to the older sort by the introducer. Among those of more recent appearance may be mentioned Nancy Hanks, an exceedingly strong grower with heavy foliage; Ben Hur, quite similar in growth to Wilder, a trifle stronger; Aurora; a deeper shade, larger and not so full; Grace Darling, still darker, with heavier stems and flowers more in sprays, and perhaps others, all of which are of too recent appearance to have fully established their character and value. In the same class for color and of older introduction are Christmas and Angelus. The growth and flowers of the former are almost identical with Wilder, but it seems frequently to lack vigor. In Angelus we have a close counterpart to the growth of Grace Wilder, but stronger in every way. The similarity is well shown in the photographs, both taken from small plants for better illustration. Angelus will commend itself to both classes of growers, as it makes an abundance of flowers, on long stiff, erect stems, and also produces many pips, which usually root easily.

In marked contrast to this form of growth is the type of which Lizzie McGowan is the most striking example and to which Mrs. Fisher belongs. An erect growth from the base, with many pips throughout its length, a form having many features of value to both classes of growers. The one unfavorable feature being the loss of young growth if long stemmed flowers are desired, but both these varieties have so well established their reputation that this point proves of minor detriment. Both are extremely prolific in flowers and shoots, the latter rooting readily. In the cut of Mrs. Fisher, the upright growth is not well shown. Fred Creighton has nearly all the characters of this class, but is more branching at the base, and unless care is exercised it will prove too late a bloomer for full profit. It is, however, one of the most beautiful pink carnations both in form and color, is very productive, and the pips root easily.

There are of course almost endless variations in the forms of growth of carnations, equalled in number only by the varieties themselves. Those already mentioned are probably the extremes, and to them may be referred more or less intimately many other kinds; as for instance to the McGowan type would belong Mrs. Ferd. Mangold, Chester Pride and its sport Edelweiss, Robt. Craig or Garfield, and President DeGraw, and more remotely, perhaps, Sunrise and Hinze's White. With the Wilder group would be classed Anna Webb, J. R. Freeman, Constancy, Silver Spray, Nellie Bly, etc. Two varieties differing from the types already spoken of, and deserving particular attention, are Daybreak and Thos. Cartledge. Similar in growth, they are perhaps best described as a combination of the Grace Wilder and Buttercup types; branching considerably close to the ground, they send up numerous strong stems, which in the case of Thomas Cartledge usually bear flowers singly, while with Daybreak 3 or 4 are borne in an attractive spray. Both are quick to come in bloom, continue blooming abundantly throughout the season, have flowers of attractive form and color and produce numerous pips, which root readily.

To be of practical value such arbitrary groups as have been suggested here should perhaps be made narrower, and one or another could be referred to in the description of a new variety. There is still another class of growers whose requirements differ somewhat from those already named. To this belongs the florist who is producing new varieties. He may be able to fix in mind the ideal towards which he is striving, but what cross shall be made to produce it? Of necessity much of his labor is uncertain and productive of small return, but as has been said in the FLORIST, the application of the laws governing the case will be most certain to produce satisfactory results. Probably more work has been done in this line during the past three years than all former efforts combined, and the results have been on the whole, remarkable.

Without taking up this group broadly it may be said that in addition to having for the production of seed, two varieties with the necessary qualifications for a commercial grower, one of them must be a variety that will produce seed, and a good percentage of the young plants therefrom make flowers of desirable form. A cross between almost any two flowers in general cultivation will probably produce one or more seedlings as



Angelus

Grace Wilder.

FORMS OF GROWTH

good as the parents, with a large proportion of plants bearing single flowers; a few varieties have proven worthless as pollen parents, and some of no value for seed production. Probably the most notable pistillate parent is Caesar, aptly styled "The Great Progenitor," a cut of which is shown herewith. Its record thus far has been a race of seedlings, every one of which produces double flowers, and many of them with some promise of value. The cut is defective in showing a bloom down among the foliage, placed there thoughtlessly by the artist. The very large and exceedingly double flowers are borne on long, erect, strong stems.

In presenting the above points for consideration the writer desires only to call attention to a feature in carnation culture which is frequently overlooked, and which is of very great importance in estimating the value of a variety.

C. J. PENNOCK.

The Best Twenty Carnations.

Upon a request to name what are in their opinion the twenty leading carnations in the market at the present time, the following lists have been given by the gentlemen named:

BY H. E. CHITTY.

WHITE. Lizzie McGowan, Silver Spray, Puritan.

PINK. Grace Wilder, Edna Craig, Grace Darling.

DARK PINK. Thos. Cartledge, Tidal Wave.

LIGHT PINK. Daybreak, Nancy Hanks.

ROSY SCARLET. Attraction.

VARIEGATED. Orange Blossom, Motor, Indiana.

SCARLET. Portia, Garfield or Robt. Craig.

CRIMSON. Anna Webb, Crimson Coronet, Ferd. Mangold.

YELLOW. Buttercup.

BY R. T. LOMBARD.

WHITE. Silver Spray, Mrs. Fisher, Lizzie McGowan, Puritan, Hinze's White.

PINK. Grace Wilder, Aurora, Daybreak, Tidal Wave.

SCARLET. Hector, Portia, Florence.

CRIMSON. Ferd. Mangold, Anna Webb.

SALMON. Mrs. Mangold, Acquisition.

YELLOW. Golden Triumph, Buttercup, Golden Gate.

VARIEGATED. J. J. Harrison, Caesar, Nellie Lewis, American Flag.

BY A. M. HERR.

WHITE. Lizzie McGowan.

SCARLET. Portia, Fred Dorner.

PINK. Edna Craig, Grace Battles, Daybreak, Grace Darling.

YELLOW. Golden Triumph, Golden Gate.

CRIMSON. Anna Webb, J. R. Freeman.

VARIEGATED. J. J. Harrison, Nellie Lewis.

BY EDW. SWAYNE.

WHITE. Lizzie McGowan, L. L. Lamborn, Pearl, Mrs. Fisher, Puritan.

PINK. Daybreak, Aurora.

SCARLET. Emily Pierson, Fred Dorner.

CRIMSON. Anna Webb, Ferd. Mangold, Pride of Kennett.

YELLOW. Buttercup, Blizzard, Golden Triumph.

VARIEGATED. Caesar, Chester Pride, J. J. Harrison, Nellie Lewis.

BY W. R. SHELMIER.

Buttercup, Grace Wilder, Portia, L. L. Lamborn, Anna Webb, Chester Pride.

Daybreak, Silver Spray, Angelus, Caesar.

Tidal Wave, Aurora, Pride of Kennett, J. R. Freeman, Wm. Swayne, Edelweiss.

Mrs. Henry M. Stanley.

Carnation Emily Pierson.

Replying to the inquiry in your issue of January 5. I find the plants of this variety more branching at the base than Robt. Craig or Garfield, and very much earlier to come in bloom. I have them on the same bench in exactly same condi-

tions and while Garfield has only just commenced to flower Emily Pierson commenced early in December. I find the flowers quite similar, but the stems of Emily Pierson are rather stouter and not so wiry, and are carried more erect, scarcely requiring any staking at all. The difference in growth is quite marked.

C. J. PENNOCK.

ED. AM. FLORIST:—In the issue of January 5 I see the statement that the carnation Emily Pierson, sent out by me, is identical with the Pres. Garfield. This carnation was a seedling raised by Mr. B. E. Beemer five years ago, then gardener for Silas Robbins, Esq., of South Wethersfield, Conn., and was purchased by me three years ago. I grew it two years before offering it to the trade, and finding it so satisfactory every way considered it worthy of a name and dissemination. It is a good, rich scarlet, in form and flower not unlike Pres. Garfield, but is every way better in habit, being a continuous and free bloomer from October to July, bearing its flowers on strong stems. With me it has always been perfectly healthy and vigorous, and among the many thousands I have grown the past three years I have never seen a diseased plant. I have a house of them now, 275 feet, with two benches, that are well worth a trip up in the country to see. Any one who is interested in the subject is invited.

A. N. PIERSON.

The Origin of the Carnation.

BY EDWARD SWAYNE.

In the days when men were rude
As the wild wolf's shaggy brood,
When the foreclad through the law
Fell behind the strouger jaw,
When the stomach won the race,
And the heart took second place,
Very slight in man or woman
Was the semblance of the humau,
Glaring through their tangled hair
Like a wild beast in its lair,
In their caverns damp and rude
Spitting marrow bones for food,
Want and discord, hunger, strife,
Seemed the ultimate of life.
Who could hope through this disguise
Man would ever skyward rise?

Seated on his mount serene
Thoughtful Jove surveyed the scene.
"Better than my own heart's blood
Do I love this savage brood.
But to mend this direful hour
Seems beyond my utmost power."
At the words, a thought sublime
Fated to resound through time
Stirred his breast. "Of my own blood
In carnation of my mood,
Sacred seal of this sweet hour,
I will make for him a flower."

So it was, from Jove's own breast,
Jove's own flower, at his behest,
Came, a new celestial guest,
Scents of Araby the blest,
Breathed from it, its color, form,
Served the sluggish heart to warm.
And rude man, with vision clear,
Moved into a subtler sphere.
In his opening mind took room
The sweet world of scent and bloom.
And his soul from that fair hour
Slowly ripening into power,
Took its place in the swift course
Of the steady universe.

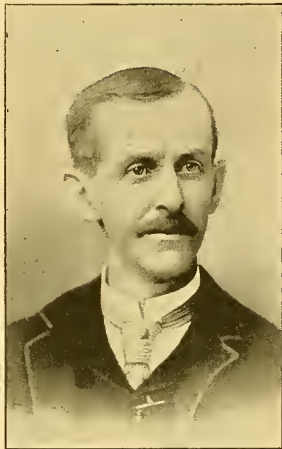
Thus I trace the sacred line
Of the one flower called "Divine."

The Late Chas. T. Starr and his Work.

Charles T. Starr was born August 23rd, 1846, on the place near Avondale, which he afterward bought, and died there December 23d, 1891, owning two farms, and a range of greenhouses, as the financial result of his labors. His work is particularly interesting at this time on account of the increased interest taken in carnations, and because he was

the pioneer in the improvement in the locality now so widely known as "The Carnation Belt."

He was the son of a farmer and worked conscientiously on the farm, but his mind was upon flowers. When between 11 and 12 years of age he made hotbeds against the woodhouse, and from these sold plants and flowers to the neighbors. Then followed a small structure in the yard, and about 1870, with \$300 borrowed from his mother, he built with his own hands, his first real greenhouse, about 50 feet by 20. This was an exceptionally well built house for a beginner, and stood until last year, when it required a new top. The walls still stand.



THE LATE CHARLES T. STARR.

His first catalogue bears no date, but was probably issued about '71 or '72, and was printed by himself; then the catalogues are missing until '78, where we find the first offer of his own seedlings, Lord Clyde, and Lydia. No more catalogues can be found until '84, when he offers the famous Buttercup, Dawn, Field of Gold, Century, and Scarlet King as new varieties; Fancy, Calico, and Maude apparently in their second year; and Lady Emma, Lilian, Little Beauty, Duke of Orange, Phila., La Belle, Avondale, Bayard Taylor, Lady Chaffin, Harriet, Venus, Mrs. Garfield and Topsy, in general list. In '85 no new ones were sent out. In '86 none. In '87, Am. Florist and R. R. Parker. In '88, Ermie. In '89, Christmas, Blizzard, Motor, and Rosemary. In '90, Golden Gate, J. R. Freeman, W. F. Dreer, Brewster and Lady Fair. In '91, Constancy, Pomona and Lasandria.

His foreman, Mr. Search, has given the names of three others, Brussels, Purple Prince and Chastity, which do not appear in any catalogue that could be found. This probably about completes the list, and makes in all forty-one varieties.

It is unfortunate that so little is known of his methods and theories, and the pedigree of his seedlings. He once said that Buttercup, Field of Gold, Venus, and Duke of Orange, were all from one

pod, Edwardsii, fertilized by Astoria. This is about all we know of the matter.

He was either especially fortunate, or especially skillful, and in either case no doubt a record of his operations might have helped us considerably. He accomplished a great deal, considering his means and opportunities. Twenty-five years ago the varieties were not nearly so good, nor the general knowledge so great.

If, in the next quarter of a century, with improved varieties, and wider distribution of knowledge, we do not do better, it will be because we are less faithful than he.

KENNETT.

A FULL REPORT of the meeting of the Executive Committee of the Society of American Florists, now being held in St. Louis, will be given in next week's issue.

Philadelphia.

The past week has been one of unusual severity; at no time has the thermometer registered above the freezing point, and the greater part of the week it has been below twenty, and for several days in the early morning it stood at zero to five degrees below. Such weather is of course very hard on the coal pile, but most florists say they have little trouble keeping out the frost, the present systems of hot water and steam being found equal to the strain.

Now that the system of heating greenhouses is well nigh perfect, would it not be a good idea for the growers to learn how to pack the products of the houses so that they would reach the dealers and storekeepers in a marketable condition? In about twenty-five per cent. of the boxes of flowers received the past week the contents have been found to be partly or entirely frozen. Carelessness in packing is cause of most of the trouble. Where the grower delivers the flowers himself, there is no issue as to who bears the loss. If express companies are behind time to any great extent they can be held responsible, but nearly all the trouble could be avoided by a liberal use of newspapers; these seem to keep out frost better than any other kind of covering.

Notwithstanding the weather, there has been plenty of flowers to supply the demand, which with the exception of the Assembly Ball, January 12th, has been very light. Prices have taken another drop, Mermets, Brides, La France \$10; Perles, Gontiers, Sunsets, \$5 to \$6; Niphetos \$6; Bennetts, Meteors \$12 to \$15; Laings \$50; Brunners \$75; Beauties \$25 to \$50; Tulips \$5 to \$6; Romans \$3; paper whites \$3 to \$4; valley \$5 to \$6, double violets \$2, freesia \$2.

On account of the Assembly Ball there was quite a demand for orchids, cattleyas being particularly in demand. Bouquets are not carried to the extent they used to be, there being a falling off of fully seventy-five per cent. in the past five years. The decorations of the ball room were by Graham; the effect was mainly pink, large bows and streamers of full width pink satin, in connection with other drapery, were hung in the arches and from pillar to pillar around the room. Large quantities of palms, smilax, and cut flowers were also used.

Blooming plants are now becoming more plentiful, small standard azaleas taking the lead. Messrs. Harris, Craig, and Becker, have quite a stock of these plants. Craig's cyclamens, those not in time for Christmas, are now fine. There are some Harrisii lilies in pots and J. H.

Habermehl is sending in a fine lot of cinerarias, the first of the season.

George Anderson cut his first Brunner January 11th, and John Burton has a house of the same rose just in. The Beauties about are now poor, there being a great many cripples among them; the foliage seems good but the petals of the rose are short, lack of sunshine is given as the reason.

Z. De Forest Ely & Co. will soon remove from their present location to the south side of Market, below 11th, where they will have a much larger building. This change is rendered necessary on account of their increasing business; we will give a fuller account of their new establishment in a future issue.

The contest among the bowlers for club prizes was inaugurated last Monday night. The bowlers are divided into four classes: In the first class the average is 140, the second, 135, third 130, and novices in the last. The matches take place once a week, three games to be rolled each evening for ten weeks, the players having the highest score at the end of that time in their respective classes, to be given such prizes as they may desire, to be purchased with the money appropriated by the club for the purpose. A handicap tournament to be given once a month is also on the tapis. K.

THAT excellent gardening journal *Gardening*, semi-monthly, price \$1 a year, and the *AMERICAN FLORIST*, together to one address for \$1.75. Address orders to the American Florist Co.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

Specialties in CARNATIONS For 1893.

Mrs. Henry M. Stanley.—A companion of Buttercup, of which it is a sport. The plant and flower are like the parent, differing only in color, a rich terra-cotta shading into yellow and red. It is pronounced by all who have seen it the best of its class. Buttercup is not fragrant, while Mrs. Stanley is very decidedly perfumed. \$1.50 per dozen; \$10.00 per 100; \$80.00 per 1000.

Cæsar.—A very strong grower. Flowers 2½ to 3 inches in diameter, red and white variegated, borne on long stiff stems. An acknowledged variety of merit and one of the best from which to raise seed. When used as the mother the seedlings invariably bear double flowers. \$75c. per dozen; \$5.00 per 100; \$40.00 per 1000.

Brutus.—A red sport of Cæsar. Flowers large, 2½ to 3 inches in diameter, very full and finely formed, borne on stiff long stems. Color a good red, but not so rich as Portia. Plants even more vigorous than the parent. \$1.20 per dozen; \$8.00 per 100; \$65.00 per 1000.

Above prices are for Rooted Cuttings. CASH with order.
Send for Price List of many other varieties.

W. R. SHELMIER,
Chester Co., AVONDALE, PA.

GROWERS OF CARNATIONS!



Here is a list of varieties that should satisfy the most exacting requirements. They are the best Carnations to date. I will supply first quality Rooted Cuttings of any of them as long as stock holds out.

Grace Battles, Edna Craig, New Jersey, Sentinel, Mrs. H. M. Stanley, Old Rose, Brutus, Wm. Scott, Spartan, Mme. Diaz Albertini, Richmond, Elizabeth Reynolds, Puritan, Pearl, Lizzie McGowan, Daybreak, Angelus, Silver Spray, Lamborn, Hinze's White, F. Creighton, Tidal Wave, W. F. Dreer, Thos. Cartledge, Grace Wilder, Hector, Portia, Emily Pierson, Anna Webb, J. R. Freeman, Ferd. Mangold, The Coronets, Golden Triumph, Golden Gate, Orange Blossom, American Flag, Cæsar, Saratoga.

Send your address on a postal card, and get my Wholesale Price List; or, I will price a list of what you need, if you will put that down with the address. Do this before buying elsewhere.



ALEX. McBRIDE,

ALPLAUS, N. Y.

When you write, mention special carnation number.

How to Cure Carnation Rust. USE FOSTITE.

It has been tried and is recommended by prominent Florists throughout the country.

Price per 25 pound bag, \$2.00
50 pound bag, 3.50
Bag 220 pounds, 8.75

FOSTITE IS BEST APPLIED BY JOOSTEN'S MAGAZINE BELLOWES, PRICE, \$3.50.

For sale by the Trade and by **C. H. JOOSTEN,**
CASH WITH ORDER. 3 COENTIES SLIP, NEW YORK.

We Pay the Express Charges

The Largest Stock of Carnations

~ in America ~

Essex Heights Floral Co.,

Send for List ————— Belleville, New Jersey.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

Rooted Cuttings.

Carnations, New Scarlet, Emily	Per 100
Pierson.....	\$3.00
Leading varieties.....	1 25
Violets, Russian and Neapolitan.	
Coleus and Alternantheras in var.	

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

A. N. PIERSON, Cromwell, Conn.

ROOTED CUTTINGS.

SOME CUTTINGS ARE GOOD, SOME ARE NOT SO GOOD, AND SOME ARE ABSOLUTELY BAD.

My customers say that mine are good, and that they make
* good plants. *

"SEEING IS BELIEVING AND FEELING IS THE NAKED TRUTH."

If you are interested in cuttings I will send you an *HONEST* sample, so that you can see and feel them and at the same time feel me on the price for as many hundred or thousand as you need.

The following varieties I have selected as being the best of their respective colors; others in other soils and localities may be equally as good, but these I *KNOW* are good. I try almost everything that is offered and you get the benefit of the trial:

GARNATIONS.

Lizzie McGowan
Puritan
Fred Dorner
Portia
J. J. Harrison
Nellie Lewis
Tidal Wave
Anna Webb

Daybreak
Aurora
Grace Darling
Fred Creighton
Louise Porsch
Golden Triumph
Golden Gate
J. R. Freeman

GARNATIONS.

Two Gems for 1893:

EDNA CRAIG

GRACE BATTLES.

FRENCH CANNAS.

Of these I have a very choice assortment, but will not have the room to grow them next season. On this account I will close my stock out very cheap. Every one I have is a good one. When I bought a variety and found it was not up to the mark it was thrown out.

MY NECESSITY IS YOUR OPPORTUNITY; DON'T BE LONG IN GRASPING IT.

"IT'S THE EARLY BIRD CATCHES THE WORM."

They will be closed out at \$5.00 per 100, or \$40.00 per 1000 for good, strong roots.

MY DESCRIPTIVE LIST IS NOW READY. SEND FOR IT.

Correspondence Solicited.

Inspection Invited

ALBERT M. HERR,

L. B. 496.

Lancaster, Pa.

Toronto.

Gardeners and florists have had enough to do to keep the frost out of their green-houses this last week. The lowest point reached according to the observatory was 18° below, but it has been very cold right along. I hear rumors that several florists were bitten, but have been unable to go and verify them.

In spite of the cold, however, business has been fair, though not quite up to the mark. Some very fine carnations are coming in now, and lots of them. J. H. Dunlop has a wonderfully pretty bench of Daybreak up at his place, just in full bearing; he is getting \$4 for them and cannot half supply the demand.

The little difficulty between the G. & F. Association and the Ontario Commissioner for the World's Fair shows signs of a settlement in the course of a week or two, on the basis that Mr. Ewing (the man recommended by the Association) should accompany the exhibit to Chicago, and set it up, staying about a month, after which five or six of the other members would take care of it for about a month each. The World's Fair Committee of the Association is to be complimented on the manner in which they have pulled this matter through.

NEW CANNAS.—The following are the names of seven new varieties of cannas from M. Crozy which will be exhibited at the World's Columbian Exposition: T. Guillard, Cte. de Bouchand, Mr. Mesnier, Etendard, General Dods, Octave Mirbeau, and Mme. A. Bouvier.

DAYBREAK

In Popularity thus far this Season, wherever grown, no Fancy Pink equals Daybreak.

IT GROWS WELL, BLOOMS WELL, SELLS WELL, PAYS BEST.

IT IS ALSO A
—FACT—
THAT IT IS ONE OF THE BEST
Summer Bloomers
in the entire list of Carnations now in trade. Do you want first class Summer Flowers, if so plant DAYBREAK.

Fine Pot Plants now ready. \$5.00 per 100, \$50.00 per 1000.
Rooted Cuttings, \$3.00 per 100, \$25.00 per 1000.
\$2" All stock sent out will be first-class.

Address, **ELLIS BROS., KEENE, N. H.**

NOTE.—Our exhibit of this sort at Boston Chrysanthemum Show Nov., 1892, took a special premium.

Mention American Florist.

GRACE BATTLES
and over 60 other varieties of
CARNATIONS
offered the Wholesale Trade.

My list embraces the best Standard and New kinds, including some of particular interest to growers of seedlings. Correspondence and personal inspection solicited.

C. J. PENNOCK,
The Pines, Kennett Square, Chester Co., Pa.
Mention American Florist.

Water Lilies.
SEEDS, TUBERS and PLANTS.

Now is the season to sow seed and start tubers if you desire to raise good stock for next summer flowering.

NYMPHAEA SEED of varieties, 50 cts. trade pkg.; \$1.00 per ounce.

WM. TRICKER, Dongan Hills, S. I., N. Y.

Carnations. PURITAN.

BEST WHITE FOR GENERAL PLANTING.
FLOWERS.

Large Size, Beautiful Form, Great Substance.

Medium Weight, Early and Productive.
Price for well rooted cuttings 60c. per doz., \$5.00 per 100 \$25.00 per 1000.

Pearl, Large White. 25c. \$2.50
Crimson and Peachblow Coronets. 50c. 5.00
Aurora, Daybreak, Golden Triumph, Grace Darling, Fred Dornier, Louise Persch, ORANGE BLOSSOM.

Price for well rooted cuttings 50c. per doz., \$3.00 per 100, \$25.00 per 1000.

Lizzie McGowan, Silver Spray, Tidal Wave, Constance, J. E. Freeman, American Flag, J. J. Harrison, W. F. Dreer, Grace Wilder, Century, Portia.
Price for well rooted cuttings \$2.00 per 100, \$15.00 per 1000.

CHRYSANTHEMUMS.

Ivory, Jessica, Sugar Loaf, E. G. Hill, Mrs. J. G. Whilldin, John Good, Emile Dornier, Frank Thompson, Eda Frass, August Swanson, H. E. Wildener, Mrs. M. J. Thomas.

Strong Rooted Cuttings \$3.00 per 100.
Ada Smoulding, W. H. Lincoln, Robbison, J. R. Fletcher, Coronet, John Lane, Louis Bochner, Miss Meredith, Miss Mary Wheeler, Rola, Bottomly, Pres. Hyde, Mrs. Geo. Bullock, Glorioso, Mrs. Fother, Excellent, Phylas, Mrs. A. Hardy, Mrs. B. C. Smith, etc.
Strong Rooted Cuttings \$2.00 per 100, \$15.00 per 1000.

MISCELLANEOUS ROOTED CUTTINGS.

Ageratum, Blue and White. \$1.25 \$10.00
Alyssum, in variety (named). 1.25 10.00
Achyranthus, Emerson, etc. 1.25 10.00
Begonia, in variety (named). 2.00 15.00
Celosia, all the best varieties (named). 1.00 8.00
Cuphea, two varieties. 1.50 10.00
Feverfew, Dwarf Gem. 2.00 15.00
Gazania, Splendens and Variegata. 2.00 15.00
Heliotrope, eight best varieties. 1.25 10.00
Moon Flower. 2.00 15.00
Salvia, Splendens and Wm. Beaman. 1.25 10.00
Stevia, Variegata. 1.50 10.00
Manettia, Bicolor. 2.00 15.00

per doz. per 100
Pandanus Utilis. 4 in. strong. \$2.50 \$25.00
" 3 1/2 " " " " 2.00 20.00
" 3 " " " " 1.50 15.00
" 2 1/2 " " " " 1.00 10.00
Lafania Borbonica, etc. \$3.00 per doz., \$25.00 per 100.

ROSES.

Perle, Mermel, Bride, Mme. Hoste, Sunset, Papa Gaudier, Mme. de Watterville, Miss Cusin, La France, Niphetos, Bon Silence, Sou d'Ami, Watan.
Price, 24-inch pot \$5.00 per 100, \$50.00 per 1000.

Send for Price list of other Stock.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS.
Rooted Cuttings.

ALL THE LEADING VARIETIES
LARGE STOCK OF
PURITAN.

McGOWAN.
THOS. CARTLEDGE.
LAMBORN.
AURORA.
ETC., ETC.

Write for Prices.
WM. SWAYNE,
P. O. Box 226. **KENNETT SQUARE, PA.**

ROOTED CARNATION CUTTINGS.
NOW READY.

Of the best old and new varieties now in cultivation, in small or large quantities. Send for estimate of wants or price list.

ISAAC LARKIN, Toughkenamon, Pa.

A ROYAL STRAIGHT
Per 100 Per 1000
EDNA CRAIG, \$12 \$100
GRACE BATTLES, 12 100
WM. SCOTT, 10 75
NEW JERSEY, 12 100
BRUTUS, 8 65
AND A FULL HOUSE.

Per 100 Per 1000
Mrs. Stanley \$10.00 \$100.00
Cesar 5.00 40.00
Thos. Cartledge
Crimson Coronet
Peachblow
Pearl 4.00 32.50
Buttercup
Aurora 3.00 25.00
Golden Triumph 2.00 25.00
Mrs. Hill
Ben Hunt
Grace Blossom
Emily Pherson
Nancy Hanks
Grace Darling
Portland
Rohelweiss
White Wings
Doybreak
Angels
Dorothy
Fred Dornier
Sellee Rust
American Flag
Gen. Chester
P. Mangold
Mrs. Mangold
Field of Gold
Chester Pride
McGowan 2.00 15.00
J. Hudson
Wm. F. Dreer
Christmas
Fred Celdron
Tidal Wave
Century
Hector
J. R. Freeman
A. Webb
Pride of Kennett
Golden Gate
Blizzard
J. J. Harrison
Silver Spray 1.50 12.50
Mrs. Fisher
Thaze's White
Mrs. McKimble
La Parrie
Grace Wilder
Robt Craig
King of Crimson
Portia

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

THE RULING HAND.—From Judge.

I have read in song and story
Of the honest hand of old,
Or the strong right hand of labor
And the hand that tills the soil.
I have heard that sweet old saying
In the dust of ages buried,
That the hand that rocks the cradle
Is the hand that rules the world.

I have hearkened to the singlet,
And have wondered at the song,
For I deem the thence people,
Though I hold the legend wrong
Not the hand that rocks the cradle
Nor the babe's rose-palm peeped
Is the hand that sways the nations
And the hand that rules the world.

Speak not of the hand of guidance,
Pointing out the narrow way.
For the rovin' hand I sing of
Is a mightier one than they;
Than the hand that bears the banner
Through the smoke of battle hurled,
For the great hand is the straight hand
And the hand that rules the world.

Tell me not of hands heroic,
Battling for our fellow men;
Of the helping hand of woman,
Or the hand that wields the pen.
Nor the hand that beats the carpet,
On the backyard fence unfurled;
For the hand that beats four times
Is the hand that rules the world.

ORANGE BLOSSOM
CARNATION.
One of the leading new varieties, and an immense bloomer; received a Certificate of Merit in 1891, color Pink, Edging White.

Rooted Cuttings, \$3.00 per 100, \$25.00 per 1000.
MAY FLOWER, splendid variegated, \$2.50 per 100.
THE JENNINGS STRAIN OF PANSIES, trade packet, 2000 seeds, \$1.00. Fine, stocky plants, small, 60c per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,
SOUTHPORT, CONN.

When writing to any of the advertisers on this page please mention the American Florist.

NEW · CARNATIONS ·

DORNER'S SEEDLINGS.

Mrs. Elizabeth Reynolds:—bright clear pink.
 Mad Diaz Albertini:—delicate flesh pink.
 Richmond:—brilliant carmine.
 Wm. Scott:—deep Grace Wilder pink.
 Blanche:—white.
 Purdue:—deep pink.
 Spartan:—deep carmine, shaded scarlet.
 Dr. Smart:—pinkish cream, striped crimson.
 Western Pride:—white, striped scarlet.
 Wabash:—deep crimson.

Rooted Cuttings:

\$10.00 per 100. \$75.00 per 1000.

In 500 lots, prices on application. Plants from 1½ inch pots 25 per cent more. We have a large stock of the first five of the above varieties and can supply them in large quantities.

Four New Chrysanthemums.

of sterling qualities. All receiving Certificates of Merit at Cincinnati and Indianapolis, with exception of Armida, it being too early for the Fall Shows.

ARMIDA:—Very early, pure white; flowers large and full; whirled, slightly incurved. A grand variety for early cut blooms.

AUTUMN GLOW:—(Changed from Autumn Queen). A large incurved globular flower, very full of a light bronze or Autumn leaf color.

MRS. CHAS. DUHME:—A beautiful large white, very chaste and graceful.

SARAH HILL:—Bright golden yellow, very large and full.

PRICES TO THE TRADE:

75c. each. Six for \$4.00. Twelve for \$7.50. Twenty-four for \$14.00. Fifty for \$25.00. Ready March 1st.

FRED DORNER & SON,

C. W. WARD, EASTERN AGENT.
 East Moriches, N. Y.

LaFayette, Ind.

GRACE BATTLES.

Mr. Edwin Lonsdale's beautiful pink Seedling—awarded Silver Medal at Philadelphia Exhibition, November, 1891.

I have secured an interest in the stock and solicit orders, which will be filled in rotation after February 15th.

Full description in my catalogue.

•• CARNATIONS ••

My specialties are Seedlings and Novelties but I grow nearly all the older good sorts.

For the better accommodation of my customers I have listed and can supply most of the Seedlings to be introduced the coming season.

GOVERNOR RUSSELL.

By special arrangements I will assist Messrs. McCarthy & Co., in the distribution of this promising white seedling. A handsome print of the flowers will be mailed for the asking.

Among the Novelties are included the best of last year's introduction and a few older but not widely distributed:—Daybreak, Buttercup, Angelus, Pearl, Thos. Cartledge, Orange Blossom, The two Coronets, Puritan, Golden Triumph, Emily Pierson, Nancy Hanks, Ben Hur, White Dove, Mrs. R. Hitt, Aurora, Grace Darling, etc.

I am now rooting from 90 to 95 per cent. of the cuttings put in sand except with a few varieties.—Some indication of vigorous stock.—My display took the Wentworth Prize at the 1891 Spring Exhibition of the Pennsylvania Horticultural Society for best collection of cut Carnation blows.—Some indication of good stock.

PEARL.

White, with frequently rosy blush, very large and of beautiful form, on long erect stout stems.

An excellent keeper and commands top price as a fancy flower.

My wholesale list now ready is very complete, embracing over 100 varieties, with short descriptions and notes on some kinds found valuable for the production of seedlings.—Mailed on application.

THE PINES,

C. J. PENNOCK,

Kennett Square.

Chester Co., Pa.

THOMAS CARTLEDGE.

A deep, pure carmine. Flowers large, full and well fringed, on long erect stems.

Plant vigorous and productive.—An exceedingly attractive and desirable acquisition.

ROOTED CUTTINGS OF CARNATIONS By the Wholesale.

Ready now. This is the best time for intending buyers to supply themselves. I offer them at moderate prices. Send for Price List. Address

JOSEPH RENARD, Unionville, Chester Co., Pa.

25,000

Extra Fine Tuberosa Pearl yet on hand, and 5,000 Tall Double Spider Lilies in any quantity at \$16 to \$20 per 1000.

Dwarf Box, Cape Jasmies, Magnolia grandiflora, plants 6 inches to 2 feet, and a few pounds of seed at \$1.00 per pound.

Cakidium Esculentum, 5 to 10 inches in circumference, \$3.00 to \$6.00 per 100.

JAMES M. LAMB, Fayetteville, N. C.

GENUINE CHINESE SACRED LILIES

In original imported baskets of 30 large fine bulbs, per basket, \$1.25.

It will pay you big to grow them. Innumerable flowers can be cut from them. Make money, buy some, order now.

H. G. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.
 Woodlawn Seed Farm, Philadelphia, Pa., 1,500 acres.

FLOWERING SHRUBS.

Well grown plants for immediate effect. Send for wholesale price list of Ornamental Trees, etc.

SAMUEL C. MOON, Morrisville, Pa.
 HUCKS COUNTY.

NEW SEEDLING WHITE CARNATION EXCELSIOR.

Awarded Honorable Mention by S. A. F., Washington, August 16, 1892.

Of strong upright growth, fragrant, don't burst, will bloom from August till July, and will cut more long stem blooms with sacrificing less buds than any other known white variety. Rooted Cuttings for sale Feb. 15, 1893, at \$10 per 100; \$80 per 1000; 250 at 1000 rates.

G. W. BRINTON & SON,
 WILMINGTON, DEL.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Boston.

After the holidays, a period of excessive dullness. That is the rule and this season is rigidly adhering to it. There have been two weeks of very poor business. Many are asking their neighbors and themselves "Why this experience every year?" Explanations vary, but in most instances the great advance in prices of certain popular varieties of flowers at holiday time is charged with the responsibility for the post-holiday scarcity of customers. Flower buyers, it is argued, get such a thorough scaring at Christmas that it takes about a month before they venture near a flower store again.

And the argument seems reasonable. But who can prescribe a practical and effectual remedy? The man who can do this will deserve everlasting gratitude from the retail florists. And, by the way, while he is working out the solution to this problem he might as well include another, and that is how to insure to the grower for the balance of the season a fair and reasonable price for his flowers. And the man who can do this will deserve everlasting gratitude from the growers. In the very conservative atmosphere of the Hub reactions do not come with such suddenness as elsewhere. Slowly, peg by peg only, the prices drop after New Years. The consequence is that buyers at a distance who were so ready a fortnight ago to shie their hearts and their pocketbooks at the feet of Boston have now suddenly discovered a new love, and under the temptation of a lower price list have transferred their affections to another spot. So the shipping trade counts for little in this business and the market which makes the lowest prices catches the customers every time. The wholesalers keep up a hold front, however, even if business is temporarily paralyzed. N. F. McCarthy & Co. have just completed one of the handsomest refrigerators in the country. Peck & Sutherland have built new counters, and Welch Bros. have hired more help.

The best roses coming in at present are Magna Charta and Ulrich Brunner. Some very good blooms of the latter are sent in by Geo. Wilson. They sell for \$75 per 100. Carnations continue too plenty, but have never before been equalled in quality. A brisk demand for the scarlet varieties has been noted ever since Christmas. Can it be that scarlet is about to have its day as a popular color once more, and wrest from pink, yellow and carmine the control which they have so long held? The writer noticed recently a big six-story iron building on lower Broadway, New York, which was being painted a brilliant vermilion from top to bottom. Is this a pointer? If so, drop your Grace Wilders, you carnation enthusiasts, and cleave unto the Portias for their star is in the ascendant.

Mr. P. Welch, Judge Hoitt and Secretary Stewart have gone to St. Louis to attend the Executive Committee meeting there, and are expected, incidentally, to bring back correct information as to the probable shade of red which will prevail in that town next August. David Allan has gone on a visit to New York. The absence of so many of his cronies has a most disheartening effect upon Mr. M. H. Norton who can scarcely master up sufficient courage to make his daily pilgrimage down town.

Mr. E. P. McNulty, an old time florist of Dorchester, died at his home at Savin Hill, on January 13.

CARNATIONS.

ROOTED CUTTINGS. *

Scarlet, Emily Pierson	- - - - -	Per 100	\$3.00	Per 1000	\$25.00
Pink, Aurora	- - - - -		3.00		25.00
" Fred Creighton	- - - - -		1.50		10.00
" Grace Wilder	- - - - -		1.50		10.00
Crimson, Anna Webb	- - - - -		1.50		10.00
White, Hinze's	- - - - -		1.50		10.00
" Mrs. Fisher	- - - - -		1.50		10.00
" Silver Lake	- - - - -		2.00		15.00

These are my standard varieties of which I have three houses 25x18 ft. full. Many of the new varieties on trial in smaller quantities. 50,000 Rooted Cuttings ready January 15th. Orders filled in rotation. Cash with order from unknown parties. Send for price list of Roses and Chrysanthemums.

A. N. PIERSON,
CROMWELL, CT.

THE LAMBORN

is the very best

WHITE CARNATION out and

J. J. Styer, Concordville, Pa.,

has greater success with it than any grower we know.

Wm. J. BAKER,

Wholesale Florist,

PHILADELPHIA, - PA.

ZIRNGIEBEL'S NEW AND IMPROVED STRAINS OF

ASTERS—Parisian, extra Early Dwarf forcing, will bloom by Easter. Zirngiebel's Extra Market for general crop. Both strains in white or colors.

STOCKS—Early Dwarf White and Dwarf Yellow.

MIGNONETTE—New Golden, selected seed.
NEW PERPETUAL SCOTCH PINKS and our well-known strains of **GIANT MARKET** AND **FANCY PANSIES**.

Any of the above in trade packages at \$1.00 each.

DENYS ZIRNGIEBEL,
Needham, Mass.

New and Rare Plants ORCHIDS, ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown at low rates. A collection of the most beautiful **Fancy Caladiums** ever offered. **Pelargoniums**, Etc. **Peonies**. All the finest old and new. **Orchids**. A very extensive stock: East Indian, Mexican, Central and South American, Etc. **Hardy Perennials**, **Roses**, **Clematis**, **Philas**, Etc. **New and standard Fruits**; rare and beautiful **Trees** and **Shrubs**, **Evergreens**, Etc.

CATALOGUES ON APPLICATION.

JOHN SAUL, Washington, D. C.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Rooted Cuttings.

Carnations Hinze's White, Mrs. Fisher, Silver Spray, Jeannette, Grace Wilder, Fred Creighton, Mayflower, Century, Anna Webb, \$1.50 per 100; \$10 per 1000.

Orange Blossom, Portia, Hector, Florence, American Flag, \$2 per 100; \$15 per 1000.

Coleus, leading varieties, including the finest Yellow Coleus in cultivation. A new variety equal to Golden Bedder in color, and as good a grower as *C. Verschaffeltii*.

Double Petunias in four finest varieties. Fuchsias, finest named varieties, \$1.50 per 100.

Heliotrope \$1.00 per 100.

Ageratum, Dwarf, White and Blue, \$1.00 per 100.

500 at 1000 rates. Cash with order. 10 cents per 100 extra when shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.
Mention American Florist.

PHLOX SEED, EXTRA.

Choicest Drummondii Grandiflora. A selection of the largest and finest flowering varieties that can be procured; grand colors and size; very highly prized by the florists who grow this strain in pots and gardens; do not fail to sow it. Trade Pkt. 20 cts.; 3 Pkts. 50 cts.; 7 Pkts. \$1.00.
JOHN F. RUPP, Shrewstown, Pa.

THE * GRAND * NEW * PINK * CARNATION "GRACE BATTLES"

Which gained the Silver Medal of the Pennsylvania Horticultural Society will be ready for distribution February 15, 1893. Grace Battles is undoubtedly the best all-round Pink Carnation yet raised, and there is money in it for those who secure it the first season. In color it is the *ideal* pink, being delicate yet striking, and will out-sell any other variety in existence, on sight. It has created a sensation wherever shown, being far more effective in color than any sort now in cultivation. All experts who have seen it growing, emphatically pronounce it the very best light pink Carnation raised up to this time.

Another strong point is its remarkably free blooming qualities. From the florist's standpoint it is the most profitable variety in this respect in existence. For freedom of bloom it will delight the hearts of all who grow Carnations for profit. Not only this, but it will produce flowers sooner after pinching than any other sort. This is a point, the importance of which should not be under-estimated.

* * * ONE-THIRD LARGER THAN "GRACE WILDER." * * *

The flowers are borne on strong, erect stems, and do not burst the calyx. They are large, fully one-third larger than the "Grace Wilder," and of the finest form. It has a delicate and pleasing fragrance, and keeps well after being cut.

It was raised from seed in 1885 and 1889, and has been thoroughly tested by Carnation experts in different parts of the country, so that no misgivings need be had in regard to this being an untested novelty.

Strong Rooted Cuttings will be ready for delivery on and after February 15, 1893. **\$12.00 per 100; \$100 per 1000.**

AWARDED

SILVER MEDAL

OF

PENNA. HORT. SOCIETY,

NOV. 10, 1891.

HEAR SOME OF THE EXPERTS. **WHAT THEY THINK** OF THE NEW CARNATION. **GRACE BATTLES.**

* * * FILLS A LONG-FELT WANT. * * *

"Grace Battles fills a long-felt want in Pink Carnations. In color it is brighter than Grace Wilder, with a satin glow. The flower is large and perfect; the stem long and stiff, making it splendid sort for corsage bouquets; and it is a vigorous grower and fine cropper. The flowers do not burst the calyx. Among the many fine seedlings that Mr. Lonsdale has raised, this pleased me best of all."

WM. K. HARRIS, Kingessing Nurseries, Phila.

* * * NO PINK CARNATION EQUAL TO IT. * * *

"Than Grace Battles I know of nothing better in Pink Carnations. It has all the requisites of a first-class variety, a large flower, beautiful light pink color, good stiff stem, a firm calyx not liable to burst, and is also a good grower and cropper. Mr. Lonsdale deserves the thanks of the fraternity for giving them this fine Carnation."

THOMAS CARTELEDGE, Pennock Bros., Phila.

* * * A GRACEFUL BATTLE WON. * * *

"In regard to Grace Battles I think the color is just perfect, *far* clearer and better fixed throughout the petals than Grace Wilder; it is just the *color* that will take, and the entire flower is the same color, which is a most desirable characteristic. It is of large size and just of the right doubleness not to make it burst the calyx. The stem is excellent. If it is a free grower, which is all who have tried it, Mr. Lonsdale has really won a 'Graceful Battle,' making its name doubly significant. We have lots of Pink Carnations, but not the *right pink*. This, however, seems to fill the bill."

R. T. LOMBARD, Wayland, Mass.

Orders booked now will be filled strictly in rotation, nearly 50,000 are already booked, and I cannot book for very many more for this season, but will do so as long as I can. Orders may be sent direct to me or to my selling agents, MESSRS. JOHN GARDNER & CO., PHILADELPHIA.

EDWIN LONSDALE, CHESTNUT HILL, PHILADELPHIA.

If you wish to learn how to cure
If you wish to purchase cuttings
that are free from

Carnation Rust

If you wish to invest in **DORNER'S SEEDLINGS**

Send for our Price List and Rust Pamphlet

Remember you must mention
The Florist in order to get
the Rust Pamphlet.

COTTAGE GARDEN GREENHOUSES

C. W. WARD, Manager.

EAST MORICHES, N. Y.

CARNATIONS * AHEAD.

You want the best in the market! We have them, 16 Novelties of '93, and all the STANDARD VARIETIES! Send for our complete Price List.

GEORGE HANCOCK, Grand Haven, Mich.

CARNATIONS ROOTED CUTTINGS.

A full line of New, and the best
of the old varieties.

SEND FOR PRICE LIST.

R. T. LOMBARD,

WAYLAND, MASS.

ROOTED CUTTINGS OF CARNATIONS

All the leading varieties.
Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CUTTINGS Of the Best Old and Most Promising new varieties of CARNATIONS.

Write for a catalogue and send list of
wants for an estimate.

J. J. Styer,

CONCORDVILLE, PA.

New Pink Carnation "BERTHA STAHL."

In color between Wilder and Tidal Wave, an immense bloomer, and all on long stems.

READY JANUARY 15, 1893.

Per doz. \$1; per 100, \$6; per 1000, \$50.

CHESTER PRIDE (original stock,
W. F. DREER, LIZZIE MCGOWAN,
SEAWAN, PORTIA,
HINZE'S WHITE, MRS. FISHER,
GRACE WILDER, and others, now ready.

Terms cash with order. Prices reasonable and
satisfaction guaranteed.

W. L. EDWARDS, Norwood, Del. Co., Pa.

Mailing size \$5.00 per 100
 Open ground bulbs, very large and well
 ripened \$10.00 to \$15.00 per 100
 Cape Jasmine, 2 1/2-inch pots, fine plants
 \$4.00 per 100, \$5.00 per 1000
 Cape Jasmine, rooted cuttings \$1.00 per 100
 Euonia Japonica, 2 varieties, 4-inch pots \$8.00 per 100

Address **F. J. ULBRIGHT, Florist,**
P. O. Box 656, ANNISTON, ALA.

EDNA CRAIG CARNATION.

The greatest new thing of recent years for Commercial purposes.

Every Florist should grow it next year. BECAUSE

It is the very finest Carnation of Wilder pink yet introduced.

It is of the largest size, with heavy fringed petals.

The flower is produced on long, stiff stems.

It has never shown a sign of disease.

It has never shown a burst calyx.

It is an all-season bloomer. The blooms taking the Madison square cup in November and those taking the Craig cup at Philadelphia in April were borne by the same plants.

Its lasting qualities, both cut and on the bushes, are wonderful.

It is a prime shipper, both prize-winning lots having been sent all the way from Indiana.

When all other Carnations are retailing at Philadelphia for 35 cents per dozen, the entire crop of Edna Craig is selling at \$5 per 100, wholesale, and every bloom engaged for the season at the same price.

What more conclusive evidence can be given of its value?

We have already orders booked for over 25,000 of it.

\$12.00 PER 100.

\$100.00 PER 1000.

READY MARCH 1, 1893.

After viewing a house of it, Eugene Dailedouze said it was the finest thing he had seen.

W. K. Harris remarks as follows: **"Edna Craig—**

When I look upon thy perfect form, and beauty,

So well defin-ed in thy blushing face,

I wonder how nature could have committed

So many errors in each of all thy former race (!!!)

Make my order 1000 instead of 500.

W. K. H."

The stock of Edna Craig is held jointly by

E. G. HILL & CO., Richmond, Indiana,

AND ROBERT CRAIG, 49th & Market Sts., Philadelphia, Pa.

Orders sent to either firm will be filled March 1, 1893.

New Chrysanthemum for 1893.

THE QUEEN.

WINNER OF FIRST PRIZE AT MADISON SQUARE GARDEN.

Also of the STORER PRIZE AT CINCINNATI,

FOR BEST WHITE SEEDLING.

"The Queen" is undoubtedly the best White Chrysanthemum for commercial or other purposes. Orders booked now.

PRICE, \$1.00 EACH, \$10.00 PER DOZEN.

READY FOR DELIVERY MARCH 1st.

OTHER NEW VARIETIES ARE:

HARRY L. SUNDERRUCH,

VERMILION (WALZ),

THEODORE ROCK,

COMRADE,

LENA WALZ,

MISS BETTIE FLEISCHMAN, RICH,

CARDINAL,

PERLE,

MISS BETTIE FLEISCHMAN, RICH,

WM. BOLLA,

ROBERT J. MURPHY,

MARVEL DAIN.

WRITE FOR DESCRIPTION AND

PRICES OF NEW SET.

FRED. S. WALZ, Station A, Cincinnati, O.

WESTERN FLORISTS.

WE OFFER ROOTED CUTTINGS OF THE FOLLOWING

Per 100

Chrysanthemums, standard sorts \$1.50

Coleus, large strong cuttings 1.00

Alternantheras, rooted in August.

P. Major, best red50

A. Nana, best yellow50

Fuchsias, best varieties 1.50

Verbenas and Geraniums in 2 1/2-inch pots. 5.00

Moon Vines 3.50

Manettia Vine 2.25

And a large assortment of other stock. Send for

Trade List.

HEITE FLORAL CO.,

712 Linwood Ave., KANSAS CITY, MO.

CHRYSANTHEMUMS.

ROOTED CUTTINGS.

Lincoln, prize hybrids: Ada Spaulding, Domination, L. Bochner, Kohillion and 20 other good market sorts \$1.50 per 100; Jessica and Ivory, \$2.50 per 100—Ready for delivery Jan. 15th.

Address **J. G. BURROW,**

FISHKILL, N. Y.

OUR DESCRIPTIVE AND WHOLESALE CATALOGUES OF

CHRYSANTHEMUMS

have been mailed, but if you have not received them by this time ask for them, and they will be mailed at once.

Twenty Thousand Established Plants Ready for Immediate Delivery.

Orders Booked for March 1st delivery for all the Novelties for 1893.

NATHAN SMITH & SON,
167 W. MAUMEE ST., ADRIAN, MICH.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

THE AMERICAN Florist and Gardening together to one address for \$1.75. Send orders to the American Florist Co.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

New York.

The cut flower trade remains as reported a week ago, exceedingly dull. There is absolutely nothing doing. Roses, carnations and violets are all in full supply, and bulbous stock comes in faster than customers appear to buy it. All are looking forward to a revival in the near future, and those who are deeply interested in the Florist Club's fortunes and the successes of the spring exhibition are devoting their spare time to planning and scheming for the success artistically and financially of that venture.

Mr. Robt. Simpson, for a number of years foreman for Mr. Ernst Asmus, has arranged to take a position as foreman for A. N. Pierson, Cromwell, Conn., and his address will be Cromwell, Conn., hereafter.

ECHOES FROM THE NEW YORK FLORIST CLUB SUPPER.

"If I had my say, such an affair as this would be attached to every potting shed in the country." Koffman.

"Ought to have read the riot act to the wholesalers and growers this Christmas." Bob Patterson.

"I've told many a lie, and I suppose this will be one of them." E. Asmus.

"What's the matter, Russell; does your face hurt you?" Hafner.

"My dear sir, if you eat lots of celery and drink nothing you'll never get full." Russell.

"Yes, I suppose I did get a little of my Scotch up, there." Dean.

"When does the turpentine dance come on?" Scallen.

"The price of lilacs has gone up." E. Asmus.

"Bow, wow." J. Young.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the Florist. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

FINE CUTTINGS

Asparagus Plumosa

JOHN BURTON,

Chestnut Hill, PHILADELPHIA, PA.

SMITH, The Florist,

GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

Mention American Florist.

HURRAH!

FLOWERING SMILAX

\$2 per doz., \$15 per 100, 500 ready to cut.

Cash with Order. Telegraph Rhodora St. Ill.

AMLING BROS.,

MAYWOOD, - - ILLINOIS.

CUT SMILAX

15C. PER STRING,

R. DAVIS & SONS., Morrison, Ill.

T. J. CORBREY & CO.,

45 LAKE STREET,

CHICAGO.

We are prepared to fill shipping orders with the best flowers in the Chicago market. Orchids in five, ten, fifteen and twenty dollar boxes.

Give us a trial when you want anything in the Cut Flower line.

CONSIGNMENTS SOLICITED.

GEO. MULLEN,

WHOLESALE AND COMMISSION DEALER

FRESH CUT FLOWERS AND FLORISTS' SUPPLIES,

17 Chapman Place, - BOSTON, MASS.

Off School St., Opposite City Hall.

LONG DISTANCE TELEPHONE 316

Orders by Mail, Telephone, Telegraph or Express promptly filled.

Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.

10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

Samuel S. Pennock

WHOLESALE

FLORIST,

REMOVED TO

Rear of 42 So. 16th St.,

PHILADELPHIA, PA.

A large and well selected stock constantly on hand of the finest Carnations. Also a full line of all other desirable flowers at lowest market prices.

HARDY CUT FERNS?

Oh Yes, over

5,000,000.

I can supply you the year round with A1 goods. Also new Bouquet Green, Laurel testooning, etc.

H. E. HARTFORD,

18 pman Place,

BOSTON, MASS.

H. L. SUNDERBRUCH, WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG, COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING RUBS, FLORISTS' SUPPLIES,

LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application.

C. A. KUEHN,

(Successor to ELLISON & KUEHN).

WHOLESALE

FLORIST,

1122 FINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN).

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST. ST. LOUIS, MO.

Do you want a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Please mention THE AMERICAN FLORIST every time you write to an advertiser.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.
 WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
 Incorporated.
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 and Dealers in FLORISTS' SUPPLIES.
 CHAS. W. McKELLAR, Mgr.
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

M. OLSON,—*
Wholesale FLORIST,
 66 WABASH AVENUE,
 Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WANTED
 One dozen good plants of
 Cyperus Alternifolius.
 Wisconsin Flower Exchange,
 131 Mason Street, MILWAUKEE, WIS.

WHOLESALE FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
 PHILADELPHIA.
 Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th ST.,
 Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.		NEW YORK, Jan. 17.	
Roses, Bon Silence.....		2.00	
" Gontiers.....		3.00@5.00	
" Perles.....		2.00@5.00	
" Niphetos.....		2.00@4.00	
" Mornet, Bride, Cusin, Watteville.....		5.00@10.00	
" Hofs.....		3.00@6.00	
" Bennett.....		5.00@10.00	
" La France, Albany.....		5.00@12.00	
" Beauty.....		15.00@10.00	
Hybrids.....		25.00	
Carnations.....		1.00@2.50	
" Mignonette.....		2.00@3.00	
" Romans, narcissus.....		2.00@3.00	
" Valley.....		2.00@3.00	
" Harriell.....		10.00@12.00	
" Violets.....		1.00@2.00	
" Lilas (bunch).....		1.00@1.50	
" Adiantum.....		1.00	
" Smilax.....		20.00	

Roses, Perles, Gontier.		BOSTON, Jan. 17.	
" Niphetos.....		3.00@5.00	
" Mermet, Sunset, Wootton.....		8.00@10.00	
" Bride, Mornet.....		5.00@12.00	
" Meteor.....		20.00	
" Beauty.....		50.00@75.00	
" Hybrids.....		50.00@75.00	
Carnations.....		1.00@2.00	
" Valley.....		5.00@6.00	
" Hyacinths, daffodils.....		3.00@5.00	
" Violets.....		1.00@1.75	
" Mignonette.....		1.00@2.00	
" Callas, Harriell.....		12.00@15.00	
" Stevia, pansies.....		1.00@2.00	
" Lilies.....		2.00	
" Freesia.....		12.50	
" Adiantum.....		1.00	
" Asparagus.....		50.00	

Roses, Perles, Gontier, Niphetos.		PHILADELPHIA, Jan. 17.	
" Mornet, Bride, La France.....		4.00@6.00	
" Ueb, Watteville.....		5.00@8.00	
" Bennett, Meteor.....		10.00@12.00	
" Brunner.....		25.00@30.00	
" Beauties and Belles.....		25.00@50.00	
Carnations.....		1.50@2.00	
" Mignonette.....		1.50@3.00	
" Romans.....		2.00@3.00	
" Narcissus.....		3.00@4.00	
" Carnationelles.....		2.50@3.00	
" Valley.....		4.00@6.00	
" Callas, Harriell.....		12.00@20.00	
" Smilax.....		18.00@20.00	

Roses, Perle, Niphetos, Gontier.		CHICAGO, Jan. 17.	
" Mornet, Bride, La France.....		4.00@5.00	
" Ueb, Watteville.....		6.00@8.00	
" Albany, Wootton, Bennett.....		6.00@8.00	
" Beauty.....		20.00@25.00	
Carnations, short.....		1.00@1.50	
" white, long.....		1.50@2.50	
" colored.....		2.00@3.00	
" fancy.....		3.00@4.00	
Romans Valley.....		3.00@4.00	
Thiopsis.....		3.00@6.00	
Narcissus.....		3.00@4.00	
Daffodils.....		3.00@5.00	
" Dutch hyacinths.....		6.00@10.00	
" Violets.....		1.00@2.00	
" Callas, Harriell.....		12.00@15.00	
" Marguerites.....		.75@1.00	
" Heliotrope.....		1.00	
" Alyssum.....		1.40	
" Smilax.....		15.00@18.00	
" Adiantum.....		1.50@1.75	

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
 — WHOLESALE —
 67 Bromfield Street, BOSTON, MASS.
 Mention American Florist.

N. F. MCCARTHY & CO.
 Wholesale Florists
 AND JOBBERS IN FLORISTS' SUPPLIES.
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.
 We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.
WALTER F. SHERIDAN,
 — WHOLESALE —
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.
HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
 FRANK D. HUNTER. JAMES PURDY,
 Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
 117 W. 30th St., NEW YORK.

The Oldest Established Commission House in N. Y.
 Largest SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR,
 — WHOLESALE —
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
 NEW YORK.
 BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
 NEW YORK.

The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
 NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will
 be 20 cents per string. Quality first-class. Prompt
 attention to orders by wire.
 J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers
 on this page please mention the AMERICAN
 FLORIST.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

F. R. PIERSON spent last Sunday in Chicago.

J. C. VAUGHAN is in New York attending the Executive Committee meeting of the A. S. T. A.

THE EXECUTIVE Committee of the American Seed Trade Association met in New York this week.

Catalogues Received.

A. Blanc & Co., Philadelphia, bulbs and tubers; same, cacti; B. M. Watson, Plymouth, Mass., trees and shrubs; Wm. Swayne, Kennett Square, Pa., carnations; Kennicott Bros. Co., Chicago, florists' wire designs; Theodosia B. Shepherd, Ventura, Cal., seeds, bulbs and plants; Wm. Meggatt, Wethersfield, Conn., seeds; Jas. Griffith, Cincinnati, O., florists' wire designs; The Cottage Garden, East Moriches, N. Y., carnations; Z. K. Jewett, Sparta, Wis., nursery stock; O. H. Will, Bismarck, N. D., seeds; T. W. Wood & Sons, Richmond, Va., seeds; Cole's Seed Store, Pella, Ia., seeds; C. J. Pennock, Kennett Square, Pa., carnations; Essex Heights Floral Co., Belleville, N. J., plants and rooted cuttings.

OBITUARY.

THOMAS HOGG, to whom we are indebted for so many valuable Japanese plants, died in New York, December 30, in his seventy-second year. He was a native of England, but came to this country in infancy. Mr. Hogg lived for some years in Japan, and traveled extensively through China, Ceylon and tropical America. His services to horticultural science give him high rank, while his noble simplicity of character was recognized by all who came in contact with him.

HENRY SARGENT CODMAN of the firm of F. L. Olmsted & Co., died in this city Jan. 14, aged 35. Mr. Codman, who had charge of the landscape work at the Columbian Exposition, was well and favorably known in his profession, and his death, while still in his early prime, will be very deeply regretted.

DR. ALEXANDER SHAW, secretary of the Colorado State Bureau of Horticulture, and superintendent of that state's horticultural exhibit at the Columbian Exposition, died in Denver, Jan. 3, aged 70. He was widely known in the horticultural interests of his state.

GREEN SILKALINE.

FOR STRINGING SMILAX AND ASPARAGUS.

Warranted not to Fade.
ALSO ALL KINDS OF BOUQUET THREAD.

JOHN C. MEYER & CO.,
289 Devonshire Street, BOSTON, MASS.
When writing mention American Florist.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

OSKAR KNOPFF & CO.,

SEED GROWERS,

Erfurt, = Germany,

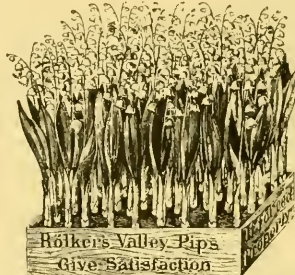
FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

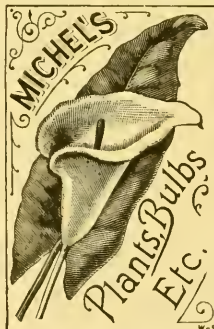


BEST GERMAN FORCING PIPS

Price: \$9 the 1000,
\$20 the box of 2500,
Less ten per cent. for prompt cash.

August Rölker & Sons

New York, P. O. Station E.



Mention American Florist.

STOCK THAT
SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order
soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.
Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

CLARK BROTHERS,

Manufacturers of

PAPER SEED BAGS,

61 Ann Street,

NEW YORK.

BENJAMIN RIMBAUD, BULB GROWER,

Quartier du Temple, Toulon, var, France.

Cable address Benrimbaud, Toulon.

The largest cultures in the South of France, of
WHITE ROMAN HYACINTHUS, Narcissus Paper
White grandiflora, N. Double Roman, N. Double
Von Sion, true pure yellow, and other Daffodils
Lilium Candidum, the largest bulbs. Frezias,
Jonquilla Campenell, largest flowering, for early forcing.
Allium. Anemone. Cardinal's Hat. A. Double
Rosette the earliest, etc. Prices on application.

SEEDS! PLANTS! BULBS!

Everything appertaining to the Farm
and Garden of the best and choicest
quality. PRICES RIGHT.

Catalogue on application.

WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

75,000 IPOMOEA PANDURATA

(Day-Blooming Moonflower.)

ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 100
rate. Per 1000 \$20; 500 at 100 rate.

Orders booked and shipped when desired.

Orders booked for ACILLIES, "The Pearl",
at \$25.00 per 1000.

JAMES FROST, Greenville, Darke Co., O.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered
for sale from cold storage.

2,500 to 5,000 Pips at \$8.50 per 100
7,500 to 10,000 Pips at 5.00 "
12,000 to 25,000 Pips at 7.50 "

C. C. ABEL & CO., New York.
P. O. Box 320.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and
Equilibrals. They are the
best at the lowest prices.
TRADE LIST issued quarterly, free to the
trade only.

HENRY A. DREER,
Philadelphia

ALWAYS mention the AMERICAN FLORIST
when writing to advertisers.

KENNICOTT BROS. COMPANY.

INCORPORATED 1893,

CAPITAL STOCK \$10,000.

FLINT KENNICOTT, President,

FRED W. H. SUNDMACHER, Secretary and Treasurer.

✂ ✂ ✂ **WHOLESALE** ✂ ✂ ✂

CUT FLOWERS,

34 & 36 Randolph St., CHICAGO.

Largest wholesale cut flower establishment in the west. The very best facilities for handling cut flowers so as to reach customers in perfect condition.

WIRE WORK A SPECIALTY.

Florists Visiting Chicago are cordially invited to make our establishment their headquarters while in the city.

—*THE THREE LEADING FLORIST FLOWERS,*—

CHRYSANTHEMUMS, CARNATIONS AND ROSES.

ALL THE NEW and
SELECTED STANDARD VARIETIES.

My stock of all are as fine as can be produced at reasonable rates. Complete list of these will be mailed to all applicants in the trade.

JOHN N. MAY,
SUMMIT, - - NEW JERSEY.

COLEUS.

A fine assortment in 50 named varieties, including all the leading kinds.

ROOTED CUTTINGS.

Per 100, in 20 named varieties, \$1.00 free by mail.

Per 1000, in 30 to 40 named varieties, \$5.00 by express.

GIANT DOUBLE ALYSSUM.

This variety of sweet alyssum originated with us and is far superior to the ordinary sort. Spikes large and full. Florists nearly double the size of the common variety. We have grown this kind of alyssum for several years, but offer it now for the first time to the trade.

Rooted Cuttings 50c. per dozen; \$2.00 per 100; \$5.00 per 1000. Cash with Order.

W. R. SHELMIRE, Avondale, Chester Co., Pa.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARACARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, CAL.



Fancy.



Dagger.

4,000,000

Hardy Evergreen Cut Ferns

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNs, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

**Rooted
Cuttings**

of Evergreens, Hardy Flowering Shrubs and Hardy Perennials (Achillea, Iberis, etc.) raised on contract for spring delivery. SEND LIST OF WANTS.

ISAAC C. ROGERS, MOORESTOWN, N. J.

Chicago.

The intense cold prevailing for the past week appears to have affected the flower buyers, as most retailers report slow sales; in fact trade is quite dull. Flowers are, generally speaking, very good; there is a marked improvement in roses and carnations, and we see very good violets. The latter flower is much more plentiful.

Bulb stuff grows in quantity steadily; Harrisii is now to be seen in large quantities, but callas are not plentiful, and usually quite small and flimsy. Tulips are now quite plentiful and generally good; freesia is fine in quality, and though not yet overstocked is likely to be seen in larger quantity before long. Dutch hyacinths are quoted this week, but at time of writing have only been seen in small lots; they are fine in quality, and appear to sell well. Daffodils have also made their appearance; very good, and readily sold; they are not yet in quantity. Valley is better in quality, and is plentiful; for a few days recently it was overstocked. Its greatest fault is lack of foliage. It should be remembered that freesia, valley, narcissus and hyacinths are always more likely to sell well when provided with a sufficient allowance of good foliage.

Fire recently broke out in the establishment of Herman Bötticher, Lake View, causing a loss of about \$200 on stock.

Among recent incorporations is the Miller Rose Co., R. M. Shaw, Marvin Goetze and A. C. Maple, incorporators; and the World's Fair Seed and Floral Co., H. W. Potter, C. E. Church, W. Stevenson, and M. J. Rughan, incorporators.

Do YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our trade directory and reference book.

Siebrecht & Wadlev,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.



Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

MME. TESTOUT,



—AND—



K. A. VICTORIA,

—THE TWO SENSATIONAL

Forcing Roses of the Season.

There is no question that these two Grand Roses have come to stay. They are money makers for the rose grower. I have a good stock of both, and can supply nice healthy plants from 2 and 2½-inch pots on and after March 1st.

Orders Filled in Strict Rotation, \$25.00 per 100, \$200.00 per 1000.

W. W. COLES,



Kokomo, Ind.

I BEG TO ANNOUNCE THAT ALL MY

FRESH FLOWER SEEDS

Have just arrived. The seeds which I sent out last year have given universal satisfaction, as shown by large numbers of unsolicited testimonials sent me.

SEVERAL SPECIALTIES.

	Trade	Oz.
	Pkt.	
VERBENA, Michell's mixed . . .	\$0.50	\$3.00
" Mammoth mixed . . .	.50	3.00
" Brilliant scarlet . . .	.30	2.50
" Pure white . . .	.30	2.00
PHLOX DRUM Dwarf Compacta, mixed by myself of the separate colors, can be relied upon . . . . .	.50	2.50

ALYSSUM, "Little Gem," true . . .	\$.20	\$.75
CANEA, "Mad. Crozy," true . . .	.25	1.25
PETUNIA, Large flowering mixed . . .	.50	12.00
PETUNIA, Dwarf inimitable . . .	.50	5.00
LOBELIA, Crystal Palace Compact . . .	.50	
SMILAX, (germinates 95 per cent.) . . .	.20	.50

Send for my Trade List of Flower Seeds, Now Ready.

HENRY F. MICHELL, SEEDSMAN.

1018 MARKET STREET,

PHILADELPHIA, - - PA.

(17 years experience with Henry A. Dreer.) MENTION AMERICAN FLORIST.

Surplus Stock Cheap

Pansies, extra good strain, \$1.00, \$2.00 and \$3.00 per 100; \$8.00, \$14.00 and \$20.00 per 1000.
Verbenas, good collection, \$2.00 per 100, \$18.00 per 1000.
Chrysanthemums, best sorts, \$1.00 per 100, \$8.00 per 1000.
Hardy Perennial Plants. Ten Leading Varieties, \$1.00 per 100, \$8.00 per 1000, including the large fiery red, oriental Poppy.
Eriogonum and Eulalia, three sorts, \$1.00 to \$8.00 per 100.
Clematis, fine stock, best sorts, \$2.50 per 100.
Climbing Roses from field, one and two years old, \$8.00 to \$8.00 per 100.

EVERYTHING WORTH CULTIVATING IN QUANTITY.

Send us Your Lists to be Priced.

Catalogue Free to All.

NANZ & NEUNER,
Louisville, Ky.

VERBENAS

MAMMOTH
BEST SORTS,
CLEAN, HEALTHY,
\$3.00 per 100, \$25.00 per 1000.

Rooted Cuttings . . . \$1.25 per 100, \$10.00 per 1000
Pehrgronium—monthly flowering Fred Dornier—ready Feb. 1st, \$1.00 per 100.

Roses, H. P.s. \$7.50
Forcing and Bedding Tens. . . . \$3.50 per 100

JOSEPH HEINL, Jacksonville, Ill.

FOR SALE.

5,000 STRONG YOUNG
ADIANTUM CUNEATUM

From 2½-inch standard pots, at \$12.00 per 100, or \$100.00 per 1000.

Address
GEO. E. BENNETT,
P. O. Box 5, FLATBUSH, N. Y.

DRY BAILED SPAGNUM MOSS. CLIMBING ROSES, Etc.

Have in cellar ready to ship at a moment's notice 500 Climbing Roses, two year, of Baltimore Belle, Prairie Queen and Madam Plantier at \$7.00 per 100, \$60.00 per 1000, out door grown. Samples sent on request. Dry Baled Spagnum Moss put up for Florist use, \$1.25 per bale, five bales \$3.00. Pent or tent mould, \$1.00 per barrel. Green Moss for orchids, etc., \$1.00 per barrel.
Z. K. JEWETT, - SPARTA, WIS.

While Your Head is Full of Pinks



SILVER MEDAL, PENN. HORT. SOCIETY.



SILVER MEDAL, MASS. HORT. SOCIETY.

don't forget the new *Pink Rose* "American Belle." The demand next season will be large. Are you making arrangements to supply that demand? This Rose is acknowledged to be the greatest acquisition of recent years for the commercial florist. It will pay all growers (small as well as large) to handle it.

Ready April 15, 1893.

Orders booked now.

\$60.00 per 100.

\$400.00 per 1000.

25 at 100 rate; 250 at 1000 rate.

JOHN BURTON,

CHESTNUT HILL,

Philadelphia.



"American Belle." and the Cup won at New York, 1891.

Winner also of the Taylor Silver Cup, 1892.

BRIDESMAID IS THE STANDARD PINK MERMET.

CIRCULARS ON APPLICATION TO

FRANK L. MOORE,

CHATHAM, MORRIS CO.,

NEW JERSEY.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,

TERRE HAUTE, IND.

ROSES.

TEAS. \$30.00 per 1000
HYBRIDS. 40.00 per 1000

Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,

LOUISVILLE KY.

Golden Returns.

200,000 ROSES 200,000

We offer well established, healthy plants in below named and many other sorts:

From 2-inch pots, \$ 3.00 per 100; \$30.00 per 1000
From 3-inch pots, 6.00 " 60.00 "

From 4-inch pots, 12.00 " 120.00 "

Not in excess of any one variety.

50,000 Hybrid Perpetual Roses 50,000

at \$4 per 100; \$40 per 1000, in 50 select varieties.

New and Rare Varieties at Special Rates given in our Wholesale List, now ready.

WE NAME A FEW SORTS ONLY:

Aurora, Bonquet, Comte de Latharpe, Bon Silene, Celora, Devolesis, C. Mermet, Etiole de Lyon, Hermosa, Mme. Cusin, H. M. Stanley, Malmison, Marie Guillot, Mme. Lambert, Marie Lambert, Marschal Niel, Kruger, Niphotos, Mme. Jos. Schwartz, Sarrano, Perle des Jardins, Sombreuil, The Bride, etc., etc.

For anything in the Florist line, or send your lists to be priced. Address

NAND & NEUNER,
LOUISVILLE, KY.

Roses of Rare Excellence; strong 1 and 2-yr., outdoor grown, budded and own roots. Leading Nurserymen call them "best ever teen." Shall we express sample?

100 1000
Climbing, 2-yr., 3 to 5 ft., own roots . . . \$8 570
" 1-yr., 2 to 3 ft., own roots . . . 7 60
Hyb. P., 2-yr., 2 to 4 ft., budded or own roots 9 85
" 1-yr., 1½ to 2 ft., " 8 75
Mad. Planter, 2-yr., 2 to 4 ft., own roots . . 8 70
" 1-yr., 1½ to 2 ft., own roots . . 7 60
Moss, 2-yr., 2 to 4 ft., budded or own roots. 9 85
" 1-yr., 1½ to 2 ft., budded or own roots 8 75

Evergreens, 2, 3 and 4 feet, fine. Full Stock Fruit Trees, Ornamentals. Everything! Stark Bros., Louisiana, Mo.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

NOW ON HAND FOR IMMEDIATE DELIVERY, 30,000 BUDDED ROSES, extra strong.

Magna Charta, Captain Christy, La France, . . . \$10.00 per 100; \$90.00 per 1000.	Ulrich Brunner, Persian Yellow, Bar. Rothschild, etc. Per 1000
Convallaria majalis, Germania Pips, extra . . . \$ 9.00	Tuberose The Pearl, extra 7.00
Single Begonias, fine mixed, strong bulbs . . . 4.00	separate colors 7.00
Gloxinia, fine mixed, strong bulbs 6.00	Tall Italian Tuberoses, extra 7.00

HULSEBOSCH BROS.,

P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.
Ask for General Wholesale Catalogue.

SMILAX. ©

15 cents per string.

Special quotations on orders for 500 Strings and over.

SEND US A LIST OF THE

Rose Plants

You are wanting, for our prices.

THE NATIONAL PLANT CO.

DAYTON, OHIO.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

IF YOU WISH TO GIVE YOUR
BUSINESS A BOOM!
PUT IN THE
SNOW GREST DAISY

It will help to cheer the winter's gloom,
And make the times go easy.

Stock practically unlimited. All this **DAISY** needs is to be seen to be appreciated. It can **BLOW ITS OWN HORN** and make it heard the length and breadth of the continent. Its popularity is spreading like a wild fire, and will soon supersede everything of its kind. We propose to put the price within the reach of all, and give you a big Woodbury dozen, 15 for a dollar; 100 for \$5. Sample plant in bloom for 12 cents in stamps, post free if you wish.

Try Gibson's beautiful, scented hybrid Pansy seed—a few ounces left. 500 seed 30c.; 1000, 50c.; 1/4 oz. \$1.50; 1/2 oz. \$2.50; oz. \$4.00. Plants of same 60c. per 100; \$5.00 per 1000.

New crop mammoth Verbena seed, splendid strain, in fine mixture, plenty of whites, intense crimsons and purples, with all the intermediate colors and tints, in packets of 1000 seeds, 50c.; 1/4 oz. \$1.10; 1/2 oz. \$2.00. Our seedlings are up and growing nicely. Will have plenty of plants later.

Try the Dakota Primrose; you will be charmed with its great white, scented blooms, 2 to 3 inches across; 100 seeds 25c.

Double fringed Dianthus, fine strain, all colors mixed, trade packet 25c. Rooted Cuttings and small plants of our leading varieties later. Address, cash with order, please, J. C. GIBSON, Woodbury, N. J. Mention American Florist.

A GOOD INVESTMENT.

ARUNDO DONAX

Propagate for next Spring's sales.

Strong clumps.....\$3.00 per dozen

" "\$20.00 per 100

ANDORRA NURSERIES,

WM. WARNER HARPER, Manager,

CHESTNUT HILL, Philadelphia, Pa.

**NO LABOR,
NO PAPER,
NO FROZEN PLANTS,
NO TIME LOST,
NO MONEY LOST.**

This is what you save by using the **Florist Wagon Heater**. It will heat four wagons in ten minutes. Can be kept hot all day without trouble. Figure up the time you lose to wrap the plants, besides paper, string, etc., and you will soon find out this little apparatus pays for itself in one week.

PRICE \$10.00.

Send Cash or Goods will be Shipped C. O. D.

C. I. PULT,
West Superior, Wis.

THE BEST POTS.

THE CHEAPEST.

THE LOWEST FREIGHT RATES.

THE BEST OF PACKING.

THE LARGEST POTTERY IN THE STATE
FOR MAKING STANDARD FLOWER POTS.

PRICE LIST OF POTS.

	Per 100		Per 100
2 1/2 inch	\$ 3.25	6 inch	\$ 2.20
3 1/4 "	3.50	7 "	3.50
3 3/4 "	4.00	8 "	4.00
4 "	5.00	9 "	7.50
5 "	7.25	10 "	10.00
6 "	9.00	11 "	15.00
8 "	13.00	12 "	20.00

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Potters,

FORT EDWARD, N. Y.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

Branch Warehouse:

713 & 715 Wharton St., Philadelphia, Pa.

Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing **FLOWER POTS** that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD POTS.

**TO GROW HEALTHY PLANTS IN POTS YOU MUST HAVE
THE RIGHT KIND OF POTS.**

Our pots are very porous, evenly burnt, nest well, are smooth, and don't cut your fingers. They are well packed and seldom break. We guarantee every pot to be first-class, and can give a thousand references from florists of experience.

Write for prices, or send us one dollar, state size you want, and get the worth of your money in samples.

D. C. SCHOFIELD & CO.,

New Brighton, Pa.

Mention American Florist.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER

STANDARD FLOWER POTS.

Write for an illustrated catalogue and price list of Pots, Lawn Vases, Hanging Baskets, Bud Pots, etc.

ADDRESS **PITTSBURGH GLAY MFG CO.,** New Brighton, Pa.

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIERS.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

EXTRA PANSY SEED.

A grand collection of giant flowering varieties; very large, of perfect form and choice colors; carefully selected; receive high praise from any customers. Every florist should sow of it. Liberal trade packet, 25 cents; 3 packets, 60 cents.

JOHN F. RUFF, Shiremanstown, Pa.

ROOTED CUTTINGS.

CARNATIONS, COLEUS, CHRYSANTHEMUMS and miscellaneous bedding plants cheap for cash. Send for Price List.

J. J. CONNELLY, Bryn Mawr, Pa.

Indianapolis.

A meeting called by Pres. Fred Dorner of the Society of Indiana Florists for the purpose of devising ways and means for another exhibition the coming fall was held in this city January 12. About 76 members directly interested attended, and letters were received from many that could not attend, advising that another show by all means should be held. After a lively discussion as to some of the expenses of the last exhibition thought to have been extravagant it was decided to limit some of the different departments to a certain amount. While it is a fact that the annual exhibitions have always been a great success in every way excepting the financial part, which of course was always due to the November weather; still there is an element in the society which would like to see a cheap show and a full treasury. How to do that somebody please answer. At no time in the history of our exhibitions has it been necessary to cut down premiums, or has anybody furnishing the exhibitions been compelled to wait for their just dues. We have been liberal and have shown what can be done in a medium sized city. But a successful show can not be run on a small, narrow minded basis.

The following committee on premium list was appointed by Pres. Dorner: M. A. Hunt, Henry Riemann, E. G. Hill, W. W. Coles. Pres. Dorner and Sec'y Wm. G. Berterman members ex. of.

November 7, 8, 9, 10 and 11 were selected as the dates for the show. This committee passed a resolution requesting the president, Fred. Dorner, to present the same before the executive committee of the Society of American Florists. The resolution is as follows: The executive committee to appropriate \$700 as a premium to seedling chrysanthemum receiving the largest number of first premiums at the various shows of 1893, and that the secretary of the S. A. F. be instructed to notify all secretaries of chrysanthemum shows to incorporate this offer in their lists.

A conference of the executive committee of the Indiana Horticultural Society and a committee of our society is arranged to meet the coming summer in regard to holding combined exhibitions and also to provide means whereby both societies could improve their usefulness.

The annual meeting of our society will be held in this city in July. B.

Association "Flora"

BOSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSES, for forcing, " 9.00
 is the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blancches, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, spruces, etc. We also have Palms, Dracenas, Arancarias and Bay Trees at our nurseries in Holland. Catalogue on application.
P. OUWERKERK, 206 Cambridge Ave.,
 JERSEY CITY, N. J.

NOVELTY FOR 1893!

Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as of other EXTRA CHOICE FLOWER SEEDS free on application.

FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.

OUR SPECIALTY.



S

For Florists, Plain and Fancy; also a full line of

FLORISTS' SUPPLIES,

At Wholesale only. Send for List.

August Rölker & Sons

New York,

P. O. Station E. 136 & 138 W. 24th Street.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORIST'S, NURSERYMEN'S AND SEEDSMEN'S AGENTS,

— For the following —

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedsmen, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen, Issy, France. Roses, Evergreens, Fruit and Forest stock.

ERNST RIEMSCHEIDER, Florist and Seedsmen, Altona, Germany. Berlin Lily of the Valley a specialty.

EDM. VAN COPPENOLLE, Nurseryman, Ghent, Belgium. Established 1850. Large culture of Arancarias, Azaleas, Indica and Mollis, Bay Trees, Begonias, Gloxinias, Palms, Rhododendrons, etc., etc.

ALPHONSE ROCHE, Gilleulles, France. Extensive and special plantation of Immortelles and dyed in all colors and shades.

ERNST RIEMSCHEIDER, Florist and Seedsmen, Altona, Germany. Choice selections of German Flower Seeds. Also of Palms, Grass and Garden seeds. Best Sugar Beet Seeds a specialty.

Catalogues (mention which) free on application when received for distribution. All orders for these houses should be plainly written and addressed to us.

The Sower

Has no second chance. The first supplies his needs. — If he takes the wise precaution of planting

Ferry's Seeds

Ferry's Seed Annual, for 1893, contains all the latest and best information about garden and gardening. It is a recognized authority. Every planter should have it. Sent free on request.

B. M. FERRY & CO., Detroit, Mich.

CANNAS CHRYSA NTHEMUMS

The best only. Seed of either, 25 cts. per packet. Circulars free.
T. H. SPAULDING, Orange, N. J.

FILL UP THOSE EMPTY SHELVES.

It is now the height of the fashionable season and every foot of store space should be made to turn in a profit.

CARNATIONS

never show to such great advantage as when arranged in one of those beautiful new baskets of **SILVER**.

Everybody wants them.

We have them in many elegant styles and lovely finish.

When you want

BASKETS

of any description,

Domestic or Imported,
 Standard or Novelties,

send to us. We can supply you.

.....

We carry a FULL LINE of all FLORISTS' REQUISITES, all fresh stock, quality A 1, and prices low.

We sell to the trade only.

Enclose your business card when sending for our catalogue.

H. Bayersdorfer & Co.

56 North Fourth St.,

Philadelphia, Pa.

GRASSES.*Of All Descriptions.***BASKETS.**
*IMPORTED AND DOMESTIC.*CAPE FLOWERS,
WHITE and COLORED.**Dried Flowers.**METAL DESIGNS,
VERY LOW.*Wheat Sheaves,
Flat and Standing,
Our Specialty.*FAIRY FLOWERS,
WHITE and COLORED.**IMMORTELLS.**
ALL COLORS.

WAX PAPER.

ARTIFICIAL FLOWERS
AND
LEAVES**A Few Words Please.**

It will pay you to see them.

WHEN YOU WANT A COMPLETE LINE

—OF—

FLORISTS' SUPPLIES

AT THE VERY LOWEST MARKET PRICE

We are the people to supply you.

NEW IMPORTATIONS ARRIVING DAILY.

WE ARE ALWAYS WIDE AWAKE.

FULL LINE OF NOVELTIES IN

BASKETS, ETC.

YOURS TRULY,

MARSCHUETZ & CO.,

23 & 25 N. 4th Street,

PHILADELPHIA.

SEND FOR OUR CATALOGUE.

DOVES.**CHENILLE**

ALL COLORS

SILK AND WORSTED.

WIRE.CYCAS LEAVES, *
* WIRE DESIGNS.

PAMPAS PLUMES

ALL COLORS.

BOUQUET PAPERS.

CELLULOID BASKETS,
POTS and PEDESTALS.

Paper Pot Covers.

TIN FOIL.

IMMORTELE LETTERS.**IF YOU NEED ANY**Cape Flowers, Immortelles, Grasses,
plain or fancy Baskets, Metal Wreaths, Letters, Doves, or any other thing in the Florists' supply line, mail us your order.**REMEMBER WE ARE THE**Leading Manufacturers of Wheat
Sheaves and Baskets, and Importers
of Florists' Supplies.

Catalogue on application. . . .

ERNEST KAUFMANN & CO.,

113 N. 4th Street,

PHILADELPHIA, PA.

**W. C. KRICK'S**
PATENTFlorists' Letters, Etc.
Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters,
\$3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
AGENTS:—J. C. VAUGHAN, Chicago, Ill.; H. BAY
HAYESDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.;
A. C. BOLKER & SONS, N. Y.; ED. S. SCHMID, Wash-
ington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.;
T. W. WOOD & SONS, Richmond, Va.; J. A. SLIM-
MERS, Toronto, Ont.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the Scale, Woolly Aphis and Insect Pests of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is Safe, Sure and Cheap. No fruit grower or florist should be without it.

Send for Circulars and Price List.

**R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.****BOSTON FLORIST LETTER CO.,**13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.

Manufacture the BEST LETTERS IN THE MARKET.

Sizes 1 1/2-inch and 2-inch. \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.
AGENTS:—Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Bolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 35 Warren St., Syracuse, N. Y.; A. C. Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis.
J. A. Slimmers, Toronto, Ont., Agt. for Canada.**CUTS!**

Wood Engraving,

Zinc Etching,

Half-Tone,

Wax Engraving, Photo-Engraving
Designing.**MANZ & CO.,**183 Monroe Street,
CHICAGO.**ENGRAVERS.****TOBACCO STEMS**

FOR FLORISTS.

Packed in bales.

PRICE:

200 lb. bale, \$2.50

500 lb. bale, \$5.00

CANE STAKES.

Fresh stock: per 1000,

7 to 10 ft., \$7.00.

WM. ELLIOTT & SONS,

SEEDSMEN, . . .

54 & 56 Dey St., NEW YORK.

Mention American Florist.

**WHITE DOVES**

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:—

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Buffalo.

New Year's business developed into better trade all round than my previous notes indicated. The retailers were well pleased. Adams & Nolan were more than satisfied and W. J. Palmer, Jr., on behalf of his firm, belloped through the telephone that it was lively with them. Flowers were more plentiful than at Christmas and better quality. Violets are plentiful with us and prices have subsided. Home grown lily of the valley is abundant and minus the leaves is fine. Good tulips are now offered with stems 8 and 9 inches long, Yellow Prince, Rosa Mundi and Vermilion Brilliant are the varieties. There is a good steady demand for flowering plants. Azalea Deutsche Perle sells well now and they require but little forcing to have them in perfection at New Years. Mr. Sebastian Pickleman, whose houses are on High street and store on William street, is setting a pace for some of the older heads to emulate if they have the enterprise to follow. He has just secured the deed of a fine tract of land about one mile from city limits, on which there are a dozen or so old houses; these will be torn down and a large range on latest and best system will be built. The farm is about 30 acres; consideration \$60,000. As Mr. S. says, we will now show the boys. However, we all wish him the greatest success and feel so pleased that we shall have a "Short Hills" right in our neighborhood. Our club being composed almost entirely of good active florists there has been a difficulty in getting a quorum together for a month or two past, but we shall revive soon and the prevailing opinion is that we can't afford to let our annual show drop, with very few exceptions. We were as successful as rest of cities, and we feel sure that if we don't realize any benefit directly through our exhibitions the whole business is boomed by it. The only regrettable part of the business is that the few selfish and sordid creatures who won't join in with the rest get the benefit of the general good business. S.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

No More Leaky Sky Lights
Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing blinding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade. These points are kept by all prominent Hardware, Paint, Oil, Seedsman, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 63 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.,



Wrought Iron
Pipe,
Fittings,
Valves,
ETC.

78 JOHN ST., NEW YORK.
WELLS & COUTAN CO., Ltd.



[Mention American Florist]

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY

This cut represents our Improved Clipper Bar for Butted Glass Roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

PLANS FURNISHED. ▲ ▲ ▲

Write for Circulars and Estimate.

Lockland Lumber Co.

LOCKLAND, OHIO.

STOTT'S KILLMRIGHT SYSTEM OF PRAYING KILLS, INSECTS AND MILDEW

PLANTS-FLOWERS-FRUITS.



STOTT'S DISTRIUTER

CHARGED WITH KILLMRIGHT, CONNECTED WITH FAUCET READY FOR USE. WORKS EQUALLY WELL WITH A GARDEN ENGINE.

TOTT'S PRAYER

END FOR



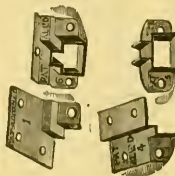
STOTT'S SYRINGE

CELL "A" CONTAINS THE KILLMRIGHT

CIRCULAR AND
TESTIMONIALS.

STOTT GARDEN IMPLEMENT
COMPANY

136 LIBERTY ST. NEW YORK.



GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

ROSES. Our **TRADE DIRECTORY** contains the date of introduction and the name of the introducer of all the roses in commerce in America. PRICE, \$2.00.
AMERICAN FLORIST CO., CHICAGO.

When writing to any of the advertisers on this page please mention the American Florist.

FLORISTS' AND GARDENERS' TROWELS & DIBBERS.



TRADE LIST JAN., 1893.

Steel "Angle" Trowels.

No. 1, 8-inch, Tempered and Polished.	\$3 00
No. 2, 7-inch, Bright Steel.	2 25
No. 3, 5-inch, Bright Steel.	1 25

Steel Dibbers.

No. 1, Flat Blade, 10x4 inches.	\$15 00
No. 2, Flat Blade, 9x2½ inches.	12 00
No. 3, Round, 8x1½ inches.	9 00
No. 4, Flat Blade, 7x1½, Wood Handle.	4 50

Sold by all dealers in Horticultural wares. I will forward Freight paid on receipt of cash, when order amounts to \$3.00 or more, at above prices.

They Won't Break.

W. B. CLEVES, PATENTEE AND MANUFACTURER, Binghamton, N. Y.

Sold by J. C. VAUGHAN, Chicago and New York.

P. J. BERCKMANS. "It is just the trowel we need."

THOMAS MEEHAN, Philadelphia. "A great advance over the ordinary garden trowel."

PROF. L. H. BAILEY. "I find it very serviceable for transplanting. It is the stoutest trowel I ever used."

JOHN LEWIS CHILDS. "The finest thing for garden work we have ever seen. For transplanting, lifting and setting plants it has no equal."

E. R. LAKE, Prof. of Horticulture and Botany, Washington Agricultural College. "They are perfection. We can't see how they could be any better. When first we saw them we shouted Eureka!"

EBEN REXFORD. "Just what I have long wanted, especially for working among seedlings."

SOLD BY THE SEEDMEN OF AMERICA.

Not Wishing you or your Customers any Harm, BUT OTHERWISE;

IF the coming season is a Good Growing Season, there will be Creeping, Crawling, Flying things—Insects,—which are called "BUGS," these will levy toll on all growing vegetation.

PLEASE REMEMBER THAT SLUG-SHOT KILLS BUGS AND YOUR PEOPLE WILL WANT IT.



EXTRACT OF TOBACCO FOR VAPORIZING, THRIP'S JUICE FOR FLORIDA SCALE.
YOURS RESPECTFULLY,

HAMMOND'S PAINT & SLUG SHOT WORKS,

* * * * * Fishkill-on-Hudson, New York.

Printing About Carnations



and about all other Plants, in the best possible shape. We can WRITE your Catalogue ILLUSTRATE it, PRINT it, and MAIL it, and do each or any of these things about right. You only have to pay the bill—that's easy! Let us hear from you right now, and note that we do all sorts of good Printing, Electrotyping and Binding.

J. HORACE MCFARLAND COMPANY, Mount Pleasant Printery, HARRISBURG, PA.

OUR NEW TRADE DIRECTORY

FOR 1892

Contains a list of all the FLORISTS, NURSERYMEN and SEEDSMEN of the United States and Canada.

Price, \$2.00.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago.



Mention American Florist.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.
Mention American Florist.

Pittsburg.

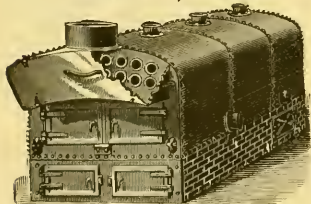
The holiday trade in the way of wreath-
ing, greens, trees, etc., was exceptionally
good, running from 20 to 40 per cent in
excess of last year. Everybody sold out
of everything. But the cut flower trade
was a sticker and calculated only to draw
the Pittsburg florists from grace, as most
of them feel that a mixture of the profane
is necessary to express their views upon
the Xmas trade. The prices demanded
by the eastern growers were outrageous
and exorbitant, jumping from 14 cents
(Brides and Mermets) on the 21st to 23
and 25 cents on the 22d. Without a
moment's warning it comes upon you
and all your calculations based upon
years of experience are shattered, and you
wonder if the New York wholesalers will
never have sense enough to organize to
protect their patrons from the clutches of
the greedy growers. The decrease in
business ranged all the way from 25 to
60% and that some of the florists would
have made money by closing shop is an
undisputed fact.

JOHN R. & A. MURDOCH.

Next!

A Pennsylvania florist lately received
an out-of-town order for funeral flowers
with \$2 enclosed as payment. The order
stated that the pieces wanted consisted
of "an anchor, a broken column, a pillow
of roses, and the remainder of the \$2 in
cut flowers."

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, brass
sheets and heads of steel, water space all around
(front, sides and back). Write for information.

**HERE WE ARE
AGAIN.**



Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaranteed.

**CORRESPONDENCE
SOLICITED.**

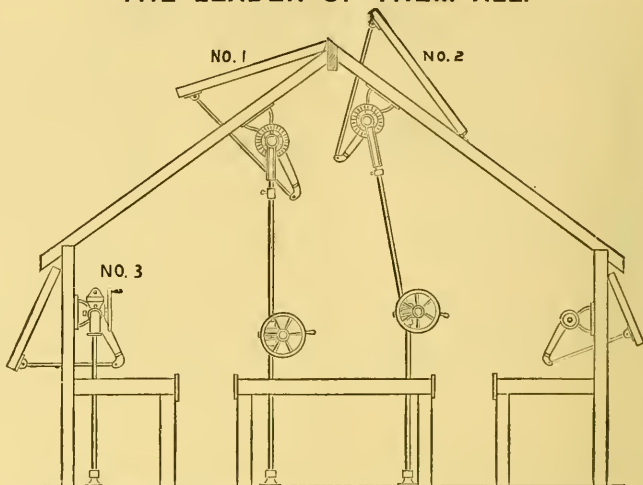
Clear Cypress,

from bottom gutter up
is my specialty.

Lyman Felheim,
ERIE, PA.

Mention American Florist.

STANDARD • VENTILATING • MACHINERY, THE LEADER OF THEM ALL.



Over 2500 Machines now Decorate over 600 Florists Establishments.

And such universal praise of Machinery has never been known in the his-
tory of Greenhouse appliances. Every machine erected becomes an agent and
is sure to have followers in the community.

This is the only machine using the recoil attachment (my own invention).
With it you can raise the sash at the farthest end of the house the first and the
highest, or on a perfect level. All other machines raise the sash first at the
machine and are from 4 to 6 inches lower at the furthest end. All machines
sold in the next season will be supplied with the arrangement free of charge.
I am also the manufacturer of the first ratchet machines ever offered to the
public and sold them in 1888; by some they are called meat saws.

I also manufacture a machine that is intended to work in low houses and
is the neatest as well as the strongest machine sold; it is self locking, same as
the Standard.

Before Ordering your Machinery Write for My Catalogue.

E. HIPPARD, Youngstown, O.

Mention American Florist.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.

Write for latest prices.

FIRST-CLASS CERTIFICATE OF MERIT.
PERFECT DRAINAGE BENCH TILE •
Used by all the leading
Growers and Horticul-
tural Builders.
W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.
Mention American Florist.

Please mention the American Flo-
rist every time you write any of the
advertisers on this page.

THIS "MEAT SAW" IS NOT A MEAT SAW BUT THE "NEW DEPARTURE"

VENTILATING APPLIANCE.

Friends, Florists, Nurserymen!

Lend me your ears!
I come not to destroy your sash,
But, to raise them.
The evil that men do
In propping up ventilators with sticks
And old pots, lives after them,
While the "New Departure" saweth their bones.

—Shakespeare.

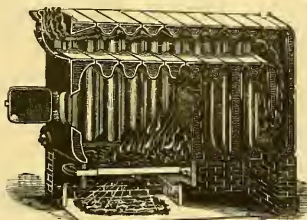
SEND FOR CATALOGUE

J. D. CARMODY, EVANSVILLE, INDIANA.



CRANK AND CHAIN POWER.

Turn, sinner turn,
Why will ye die?
Turn up your sash,
Quick as a flash,
This is the thing to buy.



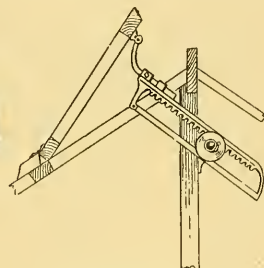
This is the . . .

AMERICAN CHAMPION WATER HEATER

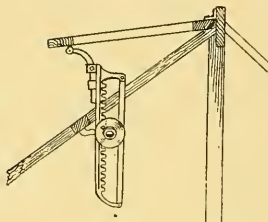
for Greenhouse Heating by Hot Water System.

It is made by a Florist especially for Florist's use. It can be enlarged at any time more heat is needed, and it burns soft coal without clogging. Send for descriptive catalogue.

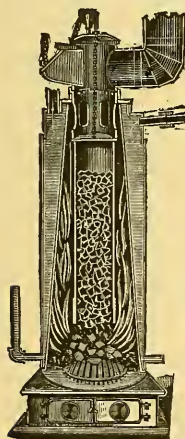
J. D. CARMODY, EVANSVILLE, IND.



SASH RAISED AT TOP.



SASH RAISED FROM THE BOTTOM.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured by THE S. WILKS MFG CO. 123 S. Clinton St., CHICAGO, ILL.

SEND FOR CATALOGUE.

NEPONSET FLOWER POTS

of Waterproof Paper, light, durable, unbreakable and cheap.



DID YOU EVER try to ship Ferns or other plants in these pots, and notice the saving in packing and freight, and the nice and clean condition in which plants and pots arrive ready for immediate retail handling? all without any risk of breakage! If not, try it and be convinced.

FOR DECORATING walls and other flat surfaces with Ferns or other small plants, for filling large flat baskets, no better, lighter and safer plant receptacle can be used than these pots, leaving the plants absolutely unharmed after use. Try it and be convinced.

For Price List and further particulars address

Wholesale Agents:

AUGUST ROLKER & SONS, Station E, New York.
R. & J. FARQUHAR, Boston, Mass

Who furnish samples, by mail, postpaid, on receipt of

10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
2 1/2 in.	2 3/4 in.	3 in.	3 1/2 in.	4 in.	5 in.	6 in.

For 1 dozen
F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.



It has been demonstrated to the sorrow of FLORISTS, the unsightliness and expense of wooden plant-stakes both of which is almost entirely overcome by using our patent GALVANIZED No. 11 WIRE SCREW STAKE, as per cut. It screws into the soil easily, stands firmer than a wooden stake, is almost invisible and indestructible, and therefore cheap. Try a hundred and you will be convinced.

Price per 100, two feet long, \$1.00. 500, \$4.50. 1,000, \$8.00. Largest sizes and lengths on application.

Address WILLIAM STOPHER,

Vassar College, Poughkeepsie Dutchess Co. N. Y.

We think them very nice, quite an acquisition. Next season we will use 4-foot screw stake for our roses, L. MENAND, Albany.

PLANT BED CLOTH.

CHEAP SUBSTITUTE FOR GLASS on Hot-beds, Cold Frames, etc. Three grades.

Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from frost. Promotes hardy, vigorous growth and keeps beds warm; will not shrink or mildew. For sale by the lead ing Dry Goods Houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples apply

NATIONAL WATERPROOF FIBRE CO.,

50 South Street, NEW YORK.
Agents Wanted.

Index to Advertisers.

Abel C C & Co.	609	612
Amillor Bros.	602	
Andorra Nurseries	611	
Baker Wm J.	528	
Baller P A.	610	
Bayless Henry W.	603	
Bay State Hdw Co.	615	
Bayensdorfer H & Co.	612	
Beil W T.	608	
Bennett Geo E.	606	
Berger H H & Co.	609	
Bird F W & Son.	617	
Boswell J.	610	
Boston Letter Co.	613	
Brackentridge & Co.	606	
Braque L B.	605	
Brauer & Richter	606	
Brinton L W & Son.	607	
Burns & Raynor	615	
Burrow J S.	615	
Burton John.	602	607
Carman R W.	613	
Carmedy J D.	617	
Chitty H E.	604	
Clark Bros.	604	
Cleres W B.	615	
Coles W W.	616	
Copnelly John J.	611	
Cortney T & Co.	602	605
Cottage Gardens The.	559	
Craig Robt.	601	
Cuttsell B P & Co.	610	
Davis R & Sons.	602	
De Launier Iron Wks.	605	
Dillon J L.	609	
Dorner Fred & Son.	607	
Dreier H A.	608	610
Eames H W & Co.	614	
Eckhardt Theo.	604	
Edwards W L.	616	
Elliot J Wilkinson.	602	
Elliot W H.	612	
Elliot Wm & Sons.	612	
Ellis Bros.	591	
Ellison Wm.	602	
Essey Helgits Flori.	604	
Co	594	
Fant H G & Co.	607	
Felthelm Lyman.	616	
Ferry D M & Co.	612	
Felds B.	608	
Frost James	604	
Gardner J & Co.	614	
Gilson J C.	611	
Gonzalez & Co.	605	
Gregory J J H & Son.	610	
Hall Asa B.	616	
Hammond Benj.	615	
Hancock Geo.	609	
Hart Jaeger.	603	
Hart Michael A.	603	
Hartford H B.	602	
Heini Jos.	604	
Heite Flori Co.	601	
Herr Albert M.	605	
Hews A H & Co.	611	
Hillinger Bros.	611	
Hill E G & Co.	601	607
Hippard E.	616	
Hitchings & Co.	618	
Hosker J M Co.	616	
Horan Edw C.	605	
Horan James.	598	
Huischesch Bros.	607	
Hunt E H.	603	
Hunt M A.	607	
Hunter & Parry.	603	
Irvine John Co.	609	
Jeffords J E & Co.	611	
Jenolings F B.	606	
Jewett Z R.	606	
Josdem C H.	604	
Kaufmann Ernst & Co.	613	
Kendrick Bros.	603	605
Knopf Oscar & Co.	603	
Kortman E.	610	
Krick W C.	613	
Krieschel Bros.	616	
Kuehn C A.	602	
Lamb James M.	597	

Larkin Isaac.	593	
La Roche & Stahl.	603	
Lockland Lumber Co.	614	
Lombard R T.	599	
Long Dan I R.	602	
Lonsdale Edwin.	604	
McBride Alex.	604	
McCarthy N F & Co.	603	
McFarland J T.	604	
McFarland J H Co.	615	
McJowan John.	604	
Mant J & Co.	604	
Marschuetz & Co.	605	
May John N.	605	
Meech F J.	605	
Meyer John C & Co.	604	
Michel Plant & Bulb Co.	604	
Michell Henry F.	605	
Millang Bros.	605	
Monitt G.	618	
Moninger Jno Geo Co.	614	
Moon Samuel C.	597	610
Moore Frank L.	604	
Mulligan Geo.	607	
Nanz & Neumer.	605	607
National Fibre Co.	617	
National Hot Water Heater Co.	618	
National Plant Co.	607	
Niles Centre Flori Co.	603	
Olson M.	603	
Owenshire E.	603	
Parry Wm.	602	
Peck & Sutherland.	605	
Perdon & Coleman Co.	614	
Pennock C J.	595	607
Pennock Saml T S.	602	605
Pierson A N.	608	
Pierson F R Co.	610	
Pittsburg Clay Mfg Co.	611	
Pult C & Co.	611	
Randall A L.	603	
Reed & Keller.	605	
Renard Joseph.	607	
Rimbaud Benj.	604	
Roberts D H L.	603	
Roehrs Theo.	603	
Rooner Fred.	612	
Rogers Nurseries.	605	
Rolker A & Sons.	604	612
Rupp John F.	608	611
Russell Governor.	619	
Russell S J.	613	
Sander & Co.	608	
Saul John.	608	
Schofield D C & Co.	611	
Schulz Jacob.	607	
Scollay John A.	618	
Schreier P & Sons.	602	
Schmidt W R.	604	605
Sheridan W F.	603	
Schreiner & Wadler.	616	
Sigpe Doppelt & Co.	611	
Situations, wants.	611	
Smith Nathan & Son.	611	
Spaulding T H.	612	
Stark Bros.	607	608
Starr Chas T.	599	
Sopher W.	617	
Stott Garden Imp Co.	614	
Styer J J.	599	
Styerdruch H L.	602	
Swayne Edw.	596	
Swayne Wm.	596	
Tate E Y.	596	
Tricker Wm.	596	
Ulbricht F J.	610	
Vaughan J C.	599	608
Vicks Sons James.	608	
Wale Fred S.	603	
Weber & Don.	604	
Weich Bros.	603	
Wells & Conlan Co.	614	
Whitlin Pot Co.	614	
Wight W P.	616	
Wiles S Mfg Co.	617	
Wisconsin Flower Ex.	606	
Wood Bros.	603	
Zimigibel D.	598	

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CYPRRESS SCREEN HOUSE MATERIAL
CLEAR
CYPRRESS
SASH
BARS
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

GREENHOUSE HEATING & VENTILATING

Horticultural Architecture and Building.

HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

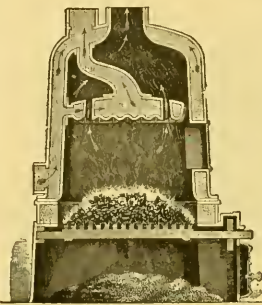
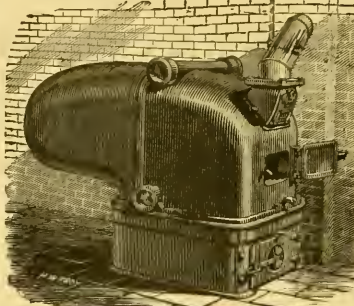
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

Estimates of cost given, and Illustrated Catalogue furnished on application.

THE SPENCE HEATER
FOR HEATING
BY HOT WATER CIRCULATION:
NATIONAL HOT WATER HEATER CO.

Boston, 195 Fort Hill Sq. Chicago, 34 Dearborn St.
New York, 94 Centre St. San Francisco, 405 Market St.



Do You Want
A RELIABLE
SUPPLY OF
WATER

For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,
Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
All of this can be accomplished by using the Improved
RIDER HOT-AIR
OR ERICSSON PUMPING ENGINE



Catalogue with full particulars, sent on application.
DE LAMATER IRON WORKS, 21 CORTLAND ST., NEW YORK, N. Y.
Mention American Florist

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, JANUARY 26, 1893.

No. 243

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

322 Dearborn Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C. president; PROF. WM. TELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Broadfield St., Boston, Mass. secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The ninth annual meeting at St. Louis, Mo., August, 1893.

CONTENTS.

Meeting Executive Committee S. A. F.	621
Chinese primroses	622
Group of single primula flowers (illus.)	623
Roses—Seasonable hints	624
—Rose growing for profit	624
Group of semi-double primula flowers (illus.) .	625
Carnations—Chester County Carnation Society .	626
—Temperature for carnations	626
—Seasonable hints	626
—Pedigrees and registration	627
The World's Congress Auxiliary	627
Unqualified color	628
Philadelphia	628
Buffalo	629
Chicago	629
New York	629
News notes	629
Cryptanthum Chamberlainianum	632
The seed trade	634
Free flowering fuchsia	636
A fuel saver	636
Rochester, N. Y.	636
Toronto	638
Upright steam boiler	640
Winter blooming allamanda	640
"Florists and poets"	642
Patents recently granted	642

WOOSTER, O.—F. H. DeWitt has purchased the floral business of W. A. Porter and has combined it with his own, on a new site, corner Beaver and Bowman streets, where he now has 3,000 feet of glass.

MR. JAS. B. KIDD, of Sherwood Hall Nursery Co., reports under date of Jan. 16, good business from their catalogue which was issued about December 15.

TRENTON, N. J.—Wm. H. Umpleby & Son is the title of a new florist firm at 147 to 155 Monmouth street. The firm has two houses each 150x21.

MADISON, Wis.—The twenty-third annual meeting of the Wisconsin State Horticultural Society will be held in the capitol February 7-9.

MR. CHAS. BATES of Vilmorin & Co., Paris, France, has been seriously sick at Toronto for over a week.

MR. J. B. NORTHUP of Minneapolis has returned from an eastern trip.

Society of American Florists Executive Committee Meeting.

The midwinter meeting of the executive committee of the national society took place at the Lindell Hotel, St. Louis, Mo., on Tuesday and Wednesday, January 17, 18. All the members of the committee were present with the exception of Messrs. Henderson, Durfee and Buckbee, several, however, being late on account of delayed trains. There were also present at the meeting Messrs. E. G. Hill, W. G. Bertermann, Fred Dörner, J. M. Jordau, E. H. Michel and R. F. Tesson. Dispatches extending greetings and kind wishes were received from ex-President Norton and from the executive committee of the American Seed Trade Association in session at New York. Among other communications received was an invitation from the Gardeners' and Florists' Club of Boston to attend their annual dinner on the 26th inst.

The treasurer's report showed an increase of \$900 over the balance on hand one year ago. The committee on medals made a report which was adopted and the following resolution was passed: "Resolved, that the whole matter of procuring designs and dies for medals in accordance with the report of the committee previously adopted, be referred to a committee consisting of Messrs. Manda, Hunt, Telease and Hoitt, with full powers to procure and adopt a design and die for such medals and cause one such medal of gold, of silver and of bronze to be struck therefor for future award."

The nomenclature committee as constituted last year was re-appointed, with the exception of Mr. E. G. Hill, who asked to be relieved and in whose stead Prof. Wm. Telease was appointed and given the position of chairman.

Chairman E. G. Hill of the committee of co-operation on the part of the Society of American Florists presented a preliminary address of the committee of the World's Congress Auxiliary on a Horticultural Congress, which we print in full in another column. Considerable time was spent in selecting a list of subjects and competent essayists to treat on the same, to be recommended to the managers of the horticultural department of the World's Congress Auxiliary. The following vote was unanimously passed:

"Resolved, in view of the convening of the Horticultural Congress in Chicago on the 16th of August, that the secretary of this society be, and he is hereby authorized and instructed to issue notices and take any other necessary steps for a convention of this society beginning on Wednesday, Aug. 9, 1893, in lieu of the regular annual convention of said society."

Mr. P. Welch submitted a draft of an amendment to the constitution which will be brought before the society for action, at the August convention, and which provides for the election of all

officers and selection of place of meeting according to the Australian system of balloting instead of the present system.

A telegram having been received from Messrs. Reynolds and Durfee announcing that the passage of the bill incorporating the Society of American Florists had been delayed in the National House of Representatives by objections raised by a representative from Texas, the following resolution was unanimously adopted and forwarded to Chairman Hatch of the committee on agriculture.

"Resolved, that the Executive Committee of the Society of American Florists in session at St. Louis this 18th day of January, 1893, tender to Representative Hatch, of Missouri, chairman of the committee on agriculture of the National House of Representatives, its profound thanks for the valuable and valued services rendered by him in his efforts to further and hasten the consideration by the House of Representatives of the Senate Bill to incorporate the Society of American Florists, which was only prevented by an opposition undoubtedly caused through a misunderstanding of the real merits of such bill and the benefits that will accrue to the public by its passage and enactment."

A committee was appointed to prepare a letter of invitation to horticulturists from abroad who are likely to visit the World's Fair, inviting them to attend the convention of the Society of American Florists at St. Louis, and to arrange for appropriate courtesies and hospitalities to be offered to such visitors at the time of the convention.

The list of subjects for essays selected for the St. Louis convention was as follows:

How to best secure a practical and scientific education for the young men of our profession.

Physics of glass in its relation to light and heat.

Hybridization; its benefits and results to ornamental horticulture.

New plants suitable for outdoor decoration.

Old plants deserving more general use in outdoor decoration.

Science and facts of successful rose forcing.

Labor saving devices.

The possibilities of America as a bulb producing country.

How to successfully conduct horticultural exhibitions.

It was also voted that the Chrysanthemum, Carnation, Protective and Hail Associations be allotted time not to exceed 40 minutes each at the regular sessions of the Society of American Florists in which to present essays or matters of special interest in their respective fields.

An invitation was extended by ex-President Jordan on behalf of the St. Louis Florists' Club, to the executive committee

and visitors to lunch with them at the Mercantile Club on Wednesday, and the same was unanimously accepted.

About 40 gentlemen were present at the banquet. The tables were handsomely decorated with flowers provided by various members of the Florists' Club, a handsome basket of purple lilacs from Mr. F. C. Weber being the central decoration. The boutonnières were of Edna Craig carnations. Mr. J. M. Jordan acted as toast master. The first speaker was Hon. J. K. Gwinn, Commissioner from the state of Missouri to the World's Fair, who gave a glowing account of Missouri's horticultural resources, and eloquently expressed his love for nature and for florists, paying a high tribute to floriculture and its influence on humanity. Missouri, he asserted, was alive and full of enterprise and would demonstrate at Chicago that there is something growing in Missouri besides moss.

President W. R. Smith responded to the toast, "The Society of American Florists." He spoke of the influence of American floriculture on the artistic character of the people and alluded to the wonderful progress made within the past twenty years, calling it one of the most wonderful facts in history. Alluding to the change in methods of putting flowers together, he said that the abominable bouquets that used to pass current in the White House in Washington would not be carried now by a wild girl from the Ozark Mountains of Missouri, a comparison which brought down the house. He spoke further in eulogy of Mr. Shaw and his great bequest in the interests of the elevation of mankind.

"Horticultural education" was responded to by Prof. Trelease. He said that education and the elevation of taste is the great work of the florist. Therefore his own taste should be educated, not by mere cramming of the memory but by that education which is the training of the mind for life's work. He regretted that as yet there is not a single school of floriculture in the country, but stated that there was an opportunity to put such a work in operation at the Shaw Garden if the florists will only decide what they consider necessary for such an education as will give to the young men what is needed for a good intelligent practice of floriculture.

Mr. W. A. Manda spoke of the fraternal side of the business of American Florists. He said that the good fellowship which brings us together and induces us to leave all care behind on such occasions as this should be fostered more than anything else. Such occasions serve to broaden our minds, remove petty jealousies, and make pleasanter business relations all around. He said we should not forget that "Too much work and no play makes Jack a dull boy." "Where are we at?" was the toast responded to by Judge Hoitt. This he declared to be a difficult conundrum to answer at times, but easily answered on this occasion when there could be no doubt we were at home, in the house of our friends. He complimented St. Louis highly on her development and enterprise and said he should advise all who possibly could to go to St. Louis next August.

Mr. E. G. Hill responded for "the growers." Mr. Hill said that the tendency of this business was to elevate every man who engages in it, from coming in contact with the beautiful gifts of nature. He contrasted the lot of the American florist with that of the men in the profession on the other side of the water and waxed patriotic as he told of how much

we have to feel proud of. Looking into the future he predicted that St. Louis would produce florists of which the whole profession would be proud, and that the time is soon coming when this country will produce the finest roses and carnations ever seen and her florists will stand at the head and front in the horticultural and floricultural world.

Secretary Stewart expressed appreciation of the cordial welcome extended by the St. Louis brethren, and was particularly gratified to see so many young men represented in the gathering. Mr. P. Welch regretted that he had not in his earlier years got a chance at the floricultural course in the Shaw institution, which would have been so valuable to him in the few years which he has got yet to live." Treasurer Hunt added his testimony and thanks to the hosts of the evening, congratulating the St. Louis Club on its flourishing condition and the executive committee on being their guests.

At the closing session of the committee the following resolution was unanimously adopted:

"On behalf of the executive committee we desire to express to the St. Louis Florists' Club our very great appreciation of the kindly feelings which welcomed us to their beautiful city, so kindly anticipated our every want and made our stay both pleasant and profitable. To the Press we desire to express our thanks for the many courtesies extended."

On the following day the visitors were given a ride out to the Shaw Gardens, and to a number of the leading florists' establishments in the suburbs. The trip was thoroughly enjoyed by all.

Key to Page Group of Single Primula Flowers.

1. Original type, small pale lilac flower. This, in size and color, is the counterpart of the primitive *Primula sinensis*, introduced into England from China in 1820. Compare this with the large white (No. 16), to recognize the extraordinary progress made by the cultivators of this flower.
2. Auricular type, mauve, with bright yellow ringed eye; fern-leaved, light foliage.
3. *Filicifolia alba*. White with yellow eye, ordinary fern-leaved variety, light foliage.
4. Fern-leaved, Lilac, yellow eye with white margin; very distinct.
5. Intensity. Bright cerise with yellow eye, dark foliage.
6. Light, delicate pink, yellow eye; fern-leaved.
7. *Punctatissima*. Odd shape, old pink shading to red, punctuated with yellow dots.
8. *Kermesina splendens*. White, flaked and spotted with carmine, yellow eye.
9. Bright cerise with yellow eye; fern-leaved, dark foliage.
10. *Princess Mary*. Creamy white, with a large greenish yellow centre, Margin of the flower crisply undulating; foliage dark. One of the newer and most admired varieties in the English market, making a very shapely pot plant.
11. Brilliant magenta, flower large and showy; dark foliage.
12. *White Perfection*. Large white flower, orange eye; dark foliage.
13. *Kermesina splendens*. Bright salmon; dark foliage.
14. *Alba magnifica*. Large white, with light foliage. A popular market sort.
15. *Swanley Blue*. The finest of this color. Lavender blue, with yellow eye; texture of the flower very satiny. Foliage

dark, habit compact; fine market plant.

16. *Alba Magnifica*. Very large white flower, yellow eye, dark foliage; fine market sort.

Chinese Primroses.

BY HENRY HOLZAPPEL.

[Read before the Columbian Horticultural Association, World's Fair, Chicago, Jan. 24.]

Perhaps no other plant has gained so much popularity within the last few years as the Chinese primrose (*P. sinensis fimbriata*). Being one of the earliest to flower, it comes at a season when other flowering plants are scarce and expensive. Aside from being exceedingly beautiful and useful for decorative purposes, the great diversity of forms in both foliage and flower, as well as variation in color, has made them especially desirable for commercial purposes.

The plant was introduced from China about 1820 and has gradually been improved from the then insignificant plant having flowers of white or light lilac to an almost endless number of varieties varying through almost all shades and colors.

Any of the Chinese varieties may be grown in pots if kept in the proper positions and temperatures. As a rule primroses are grown from seed. It is possible but not profitable to propagate by division, except in the case of some "doubles" or "semi-doubles," which will not produce good seed, when it becomes necessary to resort to division as a method of increase.

The importance of securing seed of well established strains cannot be too strongly emphasized. Many varieties often fail to reproduce themselves true from seed because of not being sufficiently well established. The seed may be sown in early spring, according to earliness desired, in shallow seed pans filled with a light soil composed of two-thirds ordinary compost and one-third sandy loam. A pane of glass laid over the pans will prevent evaporation until the germs begin to appear, when the glass may be removed. It is important that the soil used in preparing the seed pans be light and mellow. A binding soil will often prevent the tiny germs from coming through. The old rule of "cover seed with its own thickness" applies well in sowing primula seed.

The young plants apparently do not make a very rapid growth, but will by the middle of June have reached a sufficient size to be pricked off into seed flats, planting about 1 to 1½ inches apart. A light shading of some kind should be provided for a few days after transplanting. By July 20 or thereabouts the plants should be large enough to pot off into 2-inch pots, using a light, rich soil, with enough sand or crushed charcoal to give it porosity.

To keep the plants protected from the direct rays of the sun and to give an abundant supply of water is essential to good growth. When the season begins to be very warm and the sun's rays are very strong, it is a good plan to cover with a screen of muslin the greenhouse in which the plants are stored. Primulas need light, but not a direct or glaring light.

When the "final shift" or final potting takes place, which will be about August 20, a soil composed of two-thirds good rich compost, one-third sand and loam, should be prepared. For drainage, about as efficient and practical a thing as can be used is the common excelsior. This will give a more even drainage than broken pots and requires less expense and labor.



GROUP OF SINGLE PRIMULA FLOWERS—LIFE SIZE. SEE KEY AND COLOR DESCRIPTIONS ON OPPOSITE PAGE.

Great care must be taken at this point not to set the plants too deep, for this would impede the healthy development of the plant. Not to set deep enough is (contrary to most writers) equally injurious, for a plant which has not been set sufficiently deep enough to allow the lateral rootlets to take a good hold of the soil and thus brace up the plant will always be injured more or less by toppling over, thus injuring the flowers and doing serious injury to the plant by breaking the crown roots. The question of how deep a primrose should be set admits of still further discussion. It is my opinion that more plants are injured by not being set deep enough than there are plants injured from rot or damp caused by being set too deep. The lateral roots are those which spread outwards and their principal function is to supply food to the plant, while those going directly downwards supply principally water. The importance of protecting these lateral roots will be readily understood, since they are the chief source of supply for the plant.

Although the plant requires copious supplies of water during summer, towards autumn and winter it must be administered with more care. One of the main causes for the failure of some people to grow primulas is due to the violation of nature's laws. The leaf of the primrose is covered with a delicate coating of hair or pubescence. The leaf, being the lung of the plant, must be protected from anything that will prevent easy respiration. When water is applied to the foliage, it is held by capillary attraction, fills up the pores of the leaf and causes suffocation. For this reason it is generally considered best to apply water directly to the pot. I have practised letting the plant become fairly dry and then fill up the pot to the brim, with excellent results.

A temperature not exceeding 55° should be maintained. During the blooming period I find that the flowers will maintain their color for a longer period if kept cooled down to about 50°.

During the blooming period it will become necessary to feed the plants, an application of liquid manure mixed up in the proportion of a ½-barrel liquid manure diluted with ½-barrel of water. This may be applied once every two weeks, beginning in the early part of November and dispensed with the latter part of December. Following this I applied the nitrate of soda solution, 3 ounces nitrate of soda to 3 gallons of water. This solution was applied four times in two weeks with excellent results. The value of this can be easily seen by the renewed root growth.

Key to Group of Semi-Double Primula Flowers.

1. Deep cerise flower, dark foliage. From double mixed strain.
2. White faintly tinted with flesh, light foliage.
3. Semi-double white; fern leaved, light foliage.
4. Filicifolia rubra fl. pl. Light magenta; fern-leaved, dark foliage.
5. Magenta; dark foliage.
6. Rosette. White, striped and flaked with carmine.
7. Flesh pink, fimbriated and curled, light foliage.
8. Cerise shaded with salmon; dark foliage.

Please mention THE AMERICAN FLORIST every time you write to an advertiser.



Seasonable Hints.

With the continued very severe weather, combined with very little bright sunshine, more care will be needed to keep roses in a healthy, clean, thrifty condition, particularly where a higher temperature has been kept up for the sake of trying to get more buds to open than is beneficial to the welfare of the plants, which is very often the case, but which is sure to tell greatly against the plants in the long run; for while a temperature of 60° in the fall or spring, with plenty of sun heat during the day, may not injure them for several nights in succession, at this time of the year, particularly when the weather is very cold and but little sun for days together the whole temperature both day and night must be maintained by fire heat, which produces an atmosphere totally different from solar heat and not at all congenial to plant life in the main. In point of fact under such conditions the atmosphere must be made suitable to plant life as nearly as possible to obtain the best results. To manufacture this atmosphere, so to speak, requires careful judgment. Plenty of moisture in the walks and other vacant places in the morning so as to produce a moist, healthy atmosphere in conjunction with a little air so as to make it as near as possible to nature's requirements. On the contrary, where the atmosphere of the house is kept day and night in a dry, parched condition the strain upon the life of the plant is very severe as it can draw no moisture from the atmosphere, consequently has to depend upon its own vitality. These are some of the small items the careful cultivator thoroughly understands and tries to remedy or produce, as the case might be, for the benefit of his plants. On the contrary, too much moisture on the floors and sashes of the house, particularly in the latter part of the day, creates a very large amount of condensed frost on the glass in the morning and as a result oftentimes spot a good many of the best buds.

Be careful to keep all the weeds and dead leaves, etc. cleaned off as required, and just as soon as the weather changes from its extreme severity the plants will need to take considerable food in the way of liquid, as formerly advised.

Where the propagation of new stock has to be attended to now is the best time to begin to provide for next season, taking only good clean, healthy wood for cuttings, putting them in a moderate temperature—about the same that is advised for the growing of blooming plants, excepting they do not need so high a temperature during the day and will require shading. Some years ago we, and many others, were very much criticised for advising north side propagating houses, but I presume there are more north side propagating houses to-day for roses than any other for they are certainly very much the best.

One of the requirements for the successful propagation of roses is clean, sharp sand. It is better to put in fresh sand every time the bed is filled, or, in other words, for the ordinary grower it

would be better to calculate to put in sand enough for his entire batch of cuttings, putting them all in as near together as possible, so as to have them rooted all about the same time, to save the trouble of continuous propagation. To do this he would need only to fill his bench once a year with the best clean sand he can secure. This done, the cuttings require to be kept uniformly moist and shaded from bright sun and, with one or two exceptions, such as Beauty and Bennett, and possibly one or two others, if fairly treated 90 to 95 per cent of the cuttings will be well rooted in four to five weeks.

J. N. M.

Rose Growing for Profit.

One of the most successful growers about Philadelphia is Joseph Heacock of Jenkintown. His business was established in a small way about 17 years ago and mostly plants were grown for market for a long time. About 7 years ago he commenced to grow roses, and from that time his place has grown rapidly until now he has about 50,000 feet of glass. His place is well worth going to see, being always neat and tidy and the plants in a healthy condition. Mr. Heacock attributes much of his success to his foreman, Adolph Fahrenwald, who while a very quiet and unassuming gentleman is a very careful and painstaking man and thoroughly up in his profession. Attracted by some fine hybrids now coming in, we accepted an invitation to call and see the place and were fortunate in finding both Mr. Heacock and his foreman at home.

In the first house there was a fine bench of Pierre Guillot.

"What do you think of this rose? It seems to be doing well with you; this bench looks fine."

"We like it very much, it is a good grower, a free bloomer, and it sells well. It requires a higher temperature than most of the teas, doing well in the same house with the Beauty. We have only this bench now, but think of devoting a whole house to it next season."

"This house of Wootton has done very well for us. We find it to be a good all round profitable rose. We grew one dozen two years ago that we got \$1 for, and it has been one of our most profitable roses ever since." Several large houses of Mermetts and Brides looked very well. The Bride has been Mr. Heacock's most profitable rose; as many as 20,000 buds were sold out of a house 22x100 in a single season.

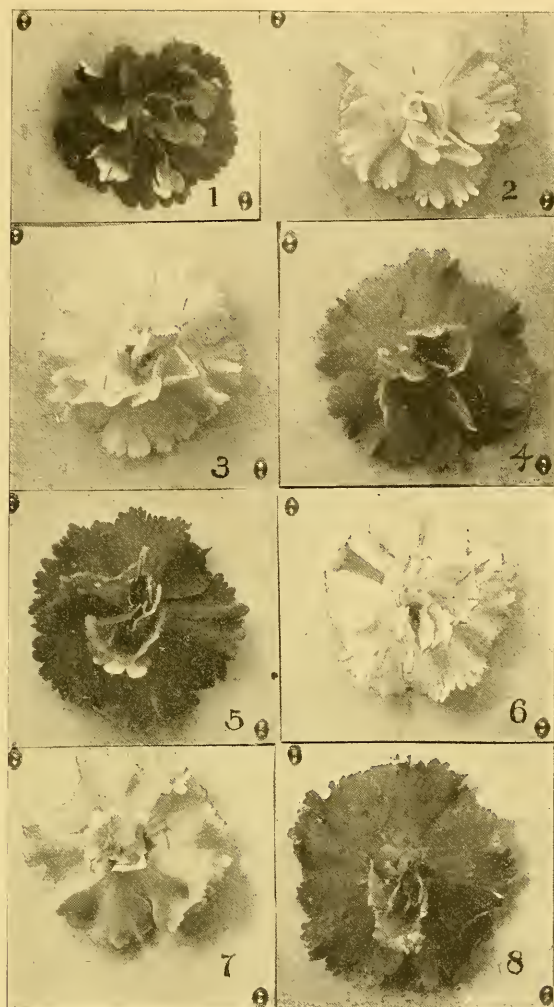
"These houses were planted early in July with plants out of 3-inch pots, using 4 inches of good compost mixed with manure. We have tried soil without manure and can see very little difference, except that when the soil is heavy and mixed with manure more care must be taken in watering. Our soils quite sandy and drains very well. Another thing I notice with heavy soil the buds seem to come a trifle larger, but the stem is weak and except on the leading shoots is not strong enough to hold the buds erect. With a sandy light soil, the stem is stronger and better able to support the bud, which in turn is not quite so large; plenty of sunshine and not too much water brings the color."

"Do you disbud them?"

"Yes, we only allow one bud to a shoot. The houses are looked over every morning and plants disbudded."

"At what temperature do you find they do best?"

"Fifty-five to fifty-six degrees at night and through the day 80° if clear and 70°



GROUP OF SEMI-DOUBLE PRIMULA FLOWERS—LIFE SIZE

in cloudy weather. If the demand falls off we lower the temperature, as there is no use rushing flowers in when the market is glutted. We topdress as soon as the young plants commence to make roots, and about every six weeks the old manure is taken off and renewed; well rotted cow manure we think the best although we cannot see much difference between that and good horse droppings. Should there seem to be much ammonia in the house after the manure has been put on, we scatter over it a light covering of fine dry soil which seems to absorb and hold it. We have known cases where the ammonia from the top dressing has taken all the leaves off the roses, although it has never been that bad with us."

"The Bride has not driven out the Niphetos with you?"

"No, we still grow Niphetos and will continue to do so for sometime, or until something better is introduced. We find quite a demand for a smaller white rose than the Bride; it is also a good summer rose, better than Marie Guillot, which is grown by some. We leave them in the second season finding it profitable to do so."

"Do you find the Perle and Sunset paying varieties?"

"No, we must say we do not. In spring and fall, when the market is generally overstocked these varieties do well, but in the winter months the cut is light. These varieties require plenty of sunshine to open up their buds and I think it is the lack of this in the dull months of winter that causes the imperfect buds or "Bull heads" as they are called, as they are not

troubled this way at other seasons of the year."

"Your Cusins and Wattevilles don't look as well as the rest of your roses."

"No, somehow or other we can't get them to grow as we would like, we have tried them every way. They seem to grow to perfection about New York, but have not been a success so far with us; we hope to find them out before long. This is our hybrid range, it is 280 feet long and 22 wide divided into 5 sections of from 50 to 70 feet in length. The first section was ripened off by drying, commencing on the 15th of August, cut down 12th of October, watered on the 15th, and the first bud was cut December 28th."

"I should say this house is a success."

"Yes it is; none of the plants have less than 2 buds and some have 5 and 6. These plants were from cuttings struck in March and set out in June. We have been very much bothered with cut worms, which eat holes into the half opened buds; it is the common brown worm that gets into the ears of corn. There used to be a truck patch where this house stands and I think they must come up out of the ground, the soil on the benches is the same we have in all the houses and we do not see any except here. They had destroyed some fifty buds before we caught them all, which we did by turning up the soil on the surface of the bed. There are two benches of Brunners, one of Laings and one of Magna Charta. The Magnas are on the lower front bench because it is the coolest, we find they set their buds better if not kept too warm."

"What makes the Laings turn their buds to one side?"

"We wish we could tell you, it is perhaps due to the early forcing, as later on it is not so noticeable. When the bud turns to one side there is always a leaf close up to it. Taking this off as soon as seen will sometimes make a difference but not always. About two years ago several of us were going through a house of early Luizets and noticed that a number of the buds had snapped off with some 2 inches of stem; there was no apparent cause and none present at the time could explain the reason, but they seemed to break or crack on one side of the stem and finally bend over and fall off."

"How do you manage the green fly?"

"By keeping plenty of tobacco stems about, down the middle path and under the edges of the benches, these we renew once a month and the pests seldom get ahead of us. In cutting down our Hybrids we leave 5 to 6 eyes. When starting we commence with a temperature of 45° and gradually get up to 62° at night and 80° during the day; we water twice a week with manure water."

"How do you account for the yellows or light colored foliage sometimes seen in winter forcing rose houses?"

"We attribute it to lack of water, we can bring the color back to an otherwise healthy plant by several doses of luke-warm water. We use water at a temperature of about 70°, it comes from a tank in which is a steam coil. We believe thoroughly in warm water and have proved most conclusively to ourselves that it is very beneficial to roses in winter. We use the thermostat to avoid extremes of heat or cold, and believe it to be a very useful invention. It is particularly so on a large place as something may be wrong with the steam at some point and the watchman is at once notified by the ringing of the bell, which is sure to occur when either extreme is reached. It is also connected with the house and will ring there at the same time."

All our steam pipes from one house to another are carried through brick conduits and are convenient to get at in case of trouble."

"What fuel do you use?"

"Buckwheat coal; it costs us \$1.95 a ton on board cars at Jenkintown and is very satisfactory; we think we get just as much heat out of one ton of this as of larger coal." K.



Chester County Carnation Society.

This society held its regular and annual meeting January 7 at Kennett Square, Pa.

The old officers were re-elected as follows: President, Joshua Ladley, Kennett Square; vice-president, Edward Swayne, Kennett Square; secretary, W. R. Shelmire, Avondale; treasurer, J. J. Styer, Concordville.

The committee on gold medal to be offered at Pittsburgh, Pa., at the meeting of the American Carnation Society, reported as follows: We recommend that the gold medal be purchased at once, in accordance with the resolution already passed at December meeting, the following words to be engraved on same—"Presented to _____ by the Chester County Carnation Society for the best new carnation never offered for sale, exhibited before the American Carnation Society, Pittsburgh, Pa., February 21, 1893," competition open to all judges to be appointed by choosing three disinterested florists familiar with carnations who may be at the Pittsburgh meeting, one to be selected by our own society through their representatives present at said meeting, one by the American Carnation Society, the third by these two, six blooms, no more, no less to be shown as stipulated in resolution, the points of excellence to be left entirely to the judgment of the committee of award. We recommend that the conditions, etc., be published in the AMERICAN FLORIST, *Florists' Exchange* and other papers. The matter of making any award at all shall be left entirely to the judgment of the committee of award.

The purchasing agent reported about \$700 worth of material bought for members at wholesale prices. This is a new feature and bids fair to make a saving to those using it.



Fig. 1.

Fig. 2.

"Supporting Plants" was the topic discussed. Several devices were shown, one by Mr. Passmore, a single wire forming a loop around the plant and supporting itself by a single leg (see Fig. 1). Mr. Barnard showed a similar arrangement with two leg supports, each bent in a semi-circle, which enclose the plant and

make a more secure support (see Fig. 2). Pres. Ladley showed a device made with a single wire bent in a rectangle the length of the row of plants across the bench, an eye at one end and hook at the other; a light (No. 14) annealed wire is used. By drawing up it holds its place well when tied with string once or twice on a 3½-foot bed. With tall plants two wires may be used. In tall varieties likely to go over one stake can be used to support the whole row (see Fig. 3).

On cultivating blooming plants, Mr. Styer thought it would prove harmful if soil was disturbed to any considerable extent. Jos. Phillips thought moderate laceration of roots induced root growth and might prove beneficial.

The secretary read a notice from the New York Florists' Club extending to our members an invitation to be present at their annual dinner January 9, which the secretary was authorized to acknowledge with the thanks of the society.

J. J. Styer made a fine display of blooms of Lamborn and Portia. Mr. Love showed two fine pink seedlings, cross between McGowan and Buttercup.

Your correspondent wishes to correct

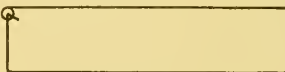


Fig. 3.

his report of a month ago. In reporting Mr. Lonsdale, he was made to say that soil was the most important feature in carnation culture, whereas he said: "While the soil is very important and needs particular attention, the principal points to regard are heat, water and ventilation." C. J.

Temperature for Carnations.

I desire to add my mite of experience in growing carnations to that given by Mr. W. R. Shelmire in a recent number of your journal regarding temperature and syringing; it is so different from his, it will no doubt be of interest to many who are trying to make carnation culture a success.

For Hinz's White and Grace Wilder I maintain at night as nearly as possible a temperature between 48° and 53°. On cloudy and rainy days I begin to air at 58°, and keep the temperature down to 60°. If the temperature is below freezing and weather cloudy I keep on all the air possible, with abundance of heat to keep the temperature between 55° and 60°. The darker the day the more heat and air corresponding. On clear days I begin to air at 65°, shut valves and keep the temperature at 70°, which I like better than a higher degree of heat.

I find the following varieties like an average of 5° more heat than the preceding: Tidal Wave, Silver Spray, Portia, Swayne and W. F. Dreer, with the same addition of heat on cloudy and clear days. Lizzie McGowan I find does best at a slightly lower temperature than Hinz's White or Grace Wilder, and think that Lamborn is the only variety that would be suited to Mr. Shelmire's treatment. Many growers complain that McGowan is a weak grower; with me this is not the case. Plants that were badly injured by the drought last fall, planted October 1 were in full bloom by November 10 and have bloomed profusely ever since, as well as making a stocky growth and average height of 20 inches.

From November to April 1 water from two to five times per month, always avoiding as much as possible getting any water upon the foliage or bloom. In late summer or early fall 1 water or syringe on all clear days and sometimes syringe twice a day, always avoiding wetting the bloom. From December 1 to April 1 seldom syringe, probably not half a dozen times. My plants have only been syringed twice so far since November 7. As far as the red spider is concerned we never see it until June or July, and have never as yet formed any acquaintance with the rust or blight.

In my opinion the only secret of success in growing carnations is a very even night temperature, and plenty of air and heat on dark cloudy days, even if it is raining or snowing, so as to hold the temperature between 55° and 58°. When the sun comes out bright give all possible air with a temperature of 70°. By this treatment every variety I have mentioned will bloom and remain healthy from the time they are planted until it is time to tear them out in September or October of the following year.

Bristol, Pa. J. THOS. DE WITT.

Seasonable Hints.

Growers in this section have generally come to the conclusion that young stock is decidedly the best for flowering purposes. They are less bother, grow better in open ground, transplant better, show a quicker growth on the benches, are less liable to the attacks of insects, bear larger flowers and more of them (to area planted) and show clean healthy growth at all times. Why this should be so is a question not easy of solution. Varieties may have something to do with this. That is early blooming kinds should be propagated late and, perhaps, late bloomers early, as it takes them longer to come to maturity. There may be something in the mode of management. A plant started early should be treated somewhat different from one started late. The former should be carried along in a cool house, and even removed to a cold frame early in the spring, where they may remain in perfect safety with simply sash protection, but should be well aired in all weather above freezing. No weather we may have in March in this latitude would be apt to injure them provided they have been properly hardened by having been kept in a cool place. To remove them to a cold frame from a warm house would be fatal should the temperature be very low the first few nights. Plants so carried should be planted in the open ground as early as the weather will permit; for if kept too long in pots or boxes, they will become pot bound and injured to some extent, it may be seriously. All this is certainly extra care and expense. If by later propagating we secure not only as good plants but a great deal better, why carry plants one to two months longer than necessary? It may be possible that the reason the early plants seldom turn out so well is because they have not been properly treated. But independent of this, the young stock seems to have the advantage and preference in everything but size. The plants may be smaller, and it will take more to fill a house, but the attributes above mentioned all hold good.

The young stock is struck from the middle of February into April, potted or boxed as soon as rooted, and placed in a cool house till the ground is ready for their reception. This matter has never

been so forcibly called to the writer's attention as it has this season. We have on our benches a number of varieties, some of each of which were started early and some late. Invariably the younger plants are better in every way. Is this merely a matter of treatment, or is there any philosophical reason for it?

Avondale, Pa. W. R. SHELMIERE.

Carnation Pedigrees and Registration.

Recent articles in the AMERICAN FLORIST as to the influence of pod and staminate parents in reproducing their characteristics in the offspring plant suggest the importance of the work of registering new varieties of seedling carnations, in charge of the nomenclature committee of the American Carnation Society. It would appear to be desirable, also, for the society to secure as complete a record as is possible of the pedigrees of all varieties of carnations, which should be gradually extended so as to cover the family history of all the varieties of dianthus. Possibly some growers of seedlings do not appreciate the value of such a labor to themselves and to carnation culture in general.

To still further stimulate the growing popularity of our favorite flower the standard of excellence must be raised from year to year by the introduction of new varieties which are distinct advances upon their predecessors. To secure this end with certainty the production of improved seedlings must become more of an art than is possible with the present facts at command. It should be an art based on the practice of the most successful originators. The Carnation Society could aid in this matter by collecting all available information as to the pedigrees and descriptions of all varieties whether now in the market or abandoned. In other words the writer thinks the A. C. S. should endeavor to place before its members in a systematic way all the authentic information as to the parentage and characteristics of all varieties of carnations which now exist scattered throughout the country in the possession of originators and others. This information should be accompanied in the report by the name of the authority furnishing it, and when known, it should be stated whether or not the pod was protected from self fertilization, and from fertilization by pollen other than that of the intended parent.

Doubtless many valuable points as to the ancestry of varieties are already lost beyond recovery but much of importance, which is not now accessible, can still be collected. The Herd-Book is the foundation on which modern stock breeding rests. It furnishes the facts in regard to desirable strains of blood for certain characteristics. It goes back to the remote progenitors as well as to the parents. The law of *atavism*, or inheritance from distant ancestors, doubtless holds among plants as it does among animals; and therefore the hybridist, and whoever crosses varieties, should know all that it is possible to know as to the streams of tendency to which he stands sponsor.

A prompt and complete registration of new varieties is an important step in this direction, and originators should promptly furnish the Nomenclature committee with the required information. Another help will be the publication of the names of originators of varieties which will appear in the forthcoming report of the American Carnation Society.

But the matter should not be allowed to rest here. As the foundation of intelligent crossing we need an exhaustive record of the varieties, with their origin

and descent. It would be a valuable contribution to the originator of seedlings and to the history of the dianthus.

F. M. PENNOCK.

Proper Temperature for Carnations.

What is the proper temperature for carnations during dull weather, when the thermometer registers from 10° to 20° above zero outside? Also what should be the treatment on bright days when the mercury is at the zero point outside? Is it well to ventilate in such cold weather?

SUBSCRIBER.

The World's Congress Auxiliary.

The general division of horticulture of the world's congress auxiliary has issued the following preliminary address.

The Columbian Exposition will not be simply an exhibit of the natural products of the earth, the iron, the wood, the beautiful flower, the delicious fruit; all these will be there and in wonderful variety and profusion, but there will also be the most perfect exposition the world has ever known of what man is able to do with these things. Not only along the line of shaping the lifeless iron and wood into machines which do his will like things of life, but also by a wise balancing of natural laws and control of conditions so influencing living things as to make them develop into new forms which gratify his taste or otherwise suit his purpose. But there will be no exhibition of power to create life, or to long defer it from the attacks of death, and so the interest of the thinking, practical man will center more in the eternal law by which the wonderful but short-lived forms were developed and can be reproduced, than in the forms themselves. He will care as much or more to confer with and learn from the producer, than to see and enjoy the production, and the greater the display of horticultural products the more earnest will be the desire for a conference or a Congress of the Horticulturists.

The success of horticultural science and floricultural knowledge in the United States is one of the marvels of the present age, and causes the devotees of Pomona and Flora to point with pride to the achievements of the last decade, showing that the science of plant life and development has kept pace with the advance made in other industrial pursuits. The intimate relationship existing between the art of the painter, carver and sculptor on the one hand, will be emphasized on the other by the floricultural art as exemplified by its most skilled and accomplished artists. It is right and fitting that horticulture should demand of the people truer and better recognition of its value and importance that has been accorded it in the past.

The World's Congress Auxiliary will furnish a place and give opportunity for Horticultural Scientists and Practical Plantmen to enforce by their addresses and essays the advantages and importance of horticulture, both from a utilitarian and an artistic point of view, proving that horticulture is an important element and factor in the growth of the state.

A unique and splendid opportunity is here provided for an interchange of views between practical men, concerning the practical things in which we are all interested. Such a congress, containing representative men from the different countries of the globe, to exchange thought,

compare experiences and give of their wisdom, can not fail to be productive of great and lasting benefit, and tend largely to advance horticulture from the region of the experimental to the certainty of a science.

The Columbian Exposition will mark an era in the history of the world's progress. The triumphs won in art, literature, the sciences, in things material and industrial will stand out in bold relief, commanding the attention and exciting the wonder of the world. Horticulture, represented by its twin children Pomona and Flora, will also challenge the attention of the lovers of the beautiful in nature and in art, by the wonderful achievements made in all that pertains to the successful cultivation of fruit and flower.

The officers of the World's Congress Auxiliary of the World's Columbian Exposition recognizing the peculiar value and importance of a Horticultural Congress have taken especial pains to assign to it the most favorable time, and to provide ample accommodations in the way of halls and other facilities for its meeting.

The proposition is to hold a World's Congress of Horticulturists in Chicago to commence August 16 and to last for about four days with sessions so arranged as to occupy only half of each day, leaving the remainder for visits to the Exposition proper.

The Congress is to be divided into sections such as Florists' Section, Fruit Growers' Section, Seedsmen's Section, etc. The different sections to meet in suitable halls provided for the purpose, both to listen to carefully prepared papers or addresses and for discussion of the subjects brought before them.

In addition to the meetings of the sections there will be held great mass meetings of all interested in horticulture to listen to the ablest speakers obtainable. All meetings of this and other congresses will be held in the permanent Memorial Art Palace on the Lake Front of Chicago. The Society of American Florists, the American Seed Trade Association and the American Pomological Society will hold their annual meetings during the same month.

The organization devised by the World's Congress Auxiliary to carry out the plan is the following:

1. A local committee of arrangements composed of a few men familiar with general horticulture and located so as to be able conveniently to meet in Chicago as often as may be necessary. The work of this committee is to arrange for the division of the congress into proper sections; to provide halls for their meetings and also to select subjects for discussion and arrange for suitable men to present them, and in general to carry out the suggestions of horticulturists so as to make the congress as practically useful as possible.

2. An advisory council consisting of the prominent horticulturists of the world, who are expected without any meeting or formal consultation among themselves, and without any special invitation, to individually offer to the committee of arrangements such suggestions concerning the congress, the topics to be discussed and the men best fitted to present them, as they think would aid in making the congress what it ought to be.

3. Committees of co-operation appointed by the horticultural societies, such as the American Pomological Society, the Society of American Florists, the American Seed Trade Association, who shall advise with the committee of arrangements in relation to all the plans

for the meetings of the particular section to which they belong.

Several societies have already appointed such committees of co-operation to act with the committee of arrangements, and so many prominent horticulturists, both of this country and in Europe, have expressed a deep interest in the plan, that a great congress of horticulturists is an assured fact, and we ask all interested to do what they can by way of suggestion to the committee of arrangements, or otherwise, to make the congress a marked success. All are also earnestly requested to so arrange their visit to the World's Columbian Exposition as to be with us at the time above stated, beginning on the 16th of August, 1893.

The attendance and participation of professors in the higher institutions of learning, directors of botanical gardens, editors and authors of appropriate publications and governmental officers interested in the work of the congress, are cordially invited.

It is expected that as the work progresses other announcements will follow this preliminary one and that our advisory council will be largely increased.

Address any suggestions that you think would aid us to the undersigned chairman.

J. C. VAUGHAN, Chairman,
E. G. HILL, Secretary.

J. M. SAMUELS,
JOHN THORPE,

S. M. EMERY,
W. W. TRACY,

Prof. Wm. TRELEASE.

Committee of the World's Congress Auxiliary on a Horticultural Congress.

Committee of Co-operation of the American Seed Trade Association: W. Atlee Burpee, Chairman, Albert Dickinson, Richard Frotseher, John Fottler, Jr., C. C. Morse, John A. Bruce.

Committee of Co-operation of the Society of American Florists: E. G. Hill, Chairman, W. F. Dreer, W. K. Smith, W. A. Manda, E. Asmus, James Dean, Mrs. H. H. Berger, J. T. Temple, W. H. Chadwick.

WORLD'S CONGRESS HEADQUARTERS, Chicago, Ill., December, 1892.

Unqualified Color.

On page 540, in a communication of Mr. Richard Ferris' entitled "Unqualified Color," three questions are asked which I shall be pleased to answer to the best of my ability.

1. If pink and yellow are unqualified colors, where is the point to F. S. M.'s illustration of a modified pink and yellow design, quoted from page 487? I answer the words "pink" and "yellow," as in common use, are absolutely unreliable and indefinite; and in employing this illustration I placed myself in the position of a person using such color names, and looked at the design from his point of view. In spite of its modifications of color, he would be impressed with the idea that the design was *yellow* and *pink*, and he would describe it so. As we will suppose (for the sake of the argument) that my design was *perfectly harmonious*, it is evident that his report would stamp my statement that yellow and pink are unfriendly, with the character of theory, and as "theory" it will be knocked square in the head! The point I wished to impress on the reader was the fact that combinations of modified colors are no safe guides for combinations of the same colors pure and simple.

2. What can that color be which is complementary to both pink and yellow? Mr. Ferris suggests greeny-purple or pur-

ple-green. He is right. Sometimes these color tones are called "olive" (a tertiary color). But in this mediatory color-tone lies the secret which binds the two unfriendly colors together; and as an apology for not explaining the matter further, I would add that it is this necessary mediatory color which taxes all the ingenuity of the artist to produce in proper tone. Herein lies the greatness of a colorist, because in this direction he is always successful!

3. What does F. S. M. mean by pink—unqualified pink? I mean the pink produced by the primary color red mixed with more or less white. Its strength or weakness does not alter its *purity*, but yellow or purple does. I wish that I could show Mr. Ferris or the reader, the charming aniline pink color, which I have in my powder-paint box. It would exactly answer the question put. We agree with Mr. Ferris that there is an infinite number of modified pinks, running to extreme salmon on the one hand, and to extreme magenta on the other; but pink in the abstract, without any adjectives except pure, and pale, and deep, exists as a matter of fact unalloyed by yellow, blue, or any other color. This color, whatever it may be, needs to be definitely settled in our minds, or else "the scores of pinks" (which as Mr. Ferris truly says exist in every shade and tint) will be entered in the florists' catalogues as much under the name of plain "pink" as they will under names at once definite and correct.

I have before expressed in these pages the opinion that considerable variety of color may be found among flowers of a certain name; but the "Hallock" chrysanthemum, though variable, has approached very closely the pure pink, which was in my mind's eye. In my note book on color, it is entered as "almost exactly pink under artificial light." Vivian-Morel and Violet Rose are entered as "varying in strength of modified and somewhat pure pink," and Violet Rose "varying too much for reliable description." Further on is a note—"keep all these away from pure or strong yellows and orange." Certainly this especial flower served my purpose in citing it as an unfriendly neighbor for the "Lincoln." But to return to my original statement about the want of harmony in yellow and pink. I think the harmonious tones of color which we are wont to admire in nature, are distinctively delicate and subtle. The rosy cheek and golden hair of the blonde maiden are not blunt pink and yellow. The very color-terms are poetical and unscientific, but they truthfully and adequately describe the delicacy of nature's complex color-tones. If the florist dealt more in complexions, sunset skies, wild roses, pink coral and yellow gold, I might venture to say something less severe about connecting yellow with pink, but so long as in his flowers he possesses what I believe to be the *strongest color factors in the world*, just so long will it be wise for me to caution him against crude combinations of color.

Just a few words now about color as the artist uses it. In the first place, under forty years of age I think we artists are unable to acquire full knowledge of color but we use it with more or less success in proportion to the way we avoid combinations which are commonplace and crude. The French have a liking for pale blue and pink; we leave them to exercise their taste in ribbons and millinery. Early Italian artists showed very little knowledge of color beyond the primary, red, blue, and yellow; artists of the nineteenth century have no excuse for so limited a palette. We may paint figures

in dresses of commonplace color if we choose; we may combine yellow with pink, light blue with pink, red with blue, and purple with green if we wish; but on no account may we presume to call ourselves *colorists* until we pass such crudities, and master the infinite ranges of modified color which lie beyond.

A few artists are colorists, yet most every artist uses color! In the hands of the colorist pink and yellow through some *modification* become harmonious, it is not only difficult to lay down the rule which transforms crude color into tones which are pleasing to the eye, it is next to impossible! In this respect we must all agree unreservedly with Mr. Ferris.

F. SCHUYLER MATHEWS.

Philadelphia.

The Rev. Dr. Henry C. McCook, recently elected to the chair of Professor of Entomology of the Penna. Horticultural Society, delivered a lecture before the society at its regular monthly meeting, January 17, on "Ants and Aphids." The Dr. is one of the most noted entomologists in the country, and his lecture, which was illustrated with large water color drawings of the different insects under discussion, was very entertaining and instructive.

The aphid subsists entirely on plant life, attaching itself to roots as well as leaves and branches. One mother aphid hatched out in the spring is capable of producing trillions of offspring in a single season. The aphid has numerous enemies, principal among which are the lady bird or bug and the dragon fly which the Dr. called the tyrant of the air. Both of these insects destroy hosts of the aphides and are the best insect friends the horticulturists have. Many persons, the lecturer stated, thought that ants destroy plants, but a close study of the insects for a long time had proved to him that such was not the case. Any damage done is incidental, the ants burrow about in widening their nests and if a root happens to be in their way they would probably cut it off, but not for food. Their food is principally sweets and oils and they are particularly fond of the honey dew that exudes from the aphid, and follow the insects about, gathering the honey whenever it appears. It is carried by the ant in much the same way as the honey bee carries honey from the flowers, in a sack or crop in its stomach. This supply is thrown up again like a cow does its cud and feeds the young and also the working ants. The lecturer said the ants protect the aphid and watch over them in much the same way that the shepherd does his flocks, in fact that the aphid was the cow of the ant.

The ant, he said, was a great benefit to the horticulturist in turning up the soil in the spring of the year. In conclusion he thought that florists should unite and urge upon the entomologist at Washington to pay more attention to the destroyers of plants grown for flowers, as his attention was mainly directed to pests which annoy agriculturists.

During the business of the meeting, transacted after the lecture, a committee was appointed to revise the by-laws. The secretary stated that as some papers had published the statement that the last chrysanthemum show had been a failure financially, and that there was a deficiency of nearly \$1,000, he desired to say that this was grossly incorrect, as while the exhibition did not make any money to speak of it had paid all expenses and some of the indebtedness of previous

spring shows at which there was a deficit.

There has not been that snap and go to business the past week or two that we would like to have seen and many complaints have been made about the state of the trade. Some florists say that the high prices of Christmas frightens the people off and that it takes them some time to get back into the way of buying. Others try to account for it by the bad weather we have had. The business when compared with last year at the same season, however, is found to be about the same; there is generally a quiet spell after the holidays every season and all hands will be busy enough from this time on.

The temperature of the past week has been the lowest experienced for some years. The thermometer has registered as low as 20 degrees below in the neighborhood of this city, and florists generally are worn out with the extra night work at the fires, particularly those who have no regular fireman. There has been quite a change in the last few days, however, and it is hoped the worst is over. There have been many informal discussions as to the most economical fuel. The demand on the coal piles having been so great recently it has turned the attention of florists to this very important item of expense. Coke is considered the most economical fuel when it can be had and some florists are getting good results from breeze or coke dust; it takes a good draft and constant attention, but where a fireman is employed it is his wages against the coal bill and is money saved to the grower. Soft coal is also used by some with good results, but requires a tall chimney. Still, if a high chimney keeps the coal bill low every place should boast of one at least.

Prices are somewhat lower. Roses—La France, 10 to 12; Mermets, Brides, 8; Cusin, Watteville, 6; Perles, Gontiers, Niphetos, 5; Beauties, 35 to 60; Magnas, 40; Brunners, 75. Carnations 1.50, valley 4 to 5, tulips 4 to 5, Romans and narcissus 3.

John Kinneer, Haines street, Germantown, suffered a loss by fire of \$1,000 early last Sunday morning; it is supposed the fire originated from a defective flue.

Harry Taylor, of Harrowgate, was almost entirely burned out January 8 by the upsetting of a lamp in one of the houses; the loss is about \$2,500.

The bowling contests at the club are exciting a great deal of interest in the different classes and are likely to result in a revival of the bowling. Brown and Anderson are now leading in the first class.

K.

Buffalo.

The weather since New Years has been one continual freeze, and although it has not been altogether bad for the production of flowers, yet it has certainly hurt business to some extent. People will get married and die regardless of weather but the transient trade of the retail stores has been seriously affected by it. Half the time the passers by on the side walks can't see the beautiful (more or less) displays in the windows and if they could see them are in too much of a hurry to stop and look in. Since New Years there has been a great falling off in parties, etc., which required much of the florists' help. Flowers are coming in now quite equal to the demand and scarcely any flower can be called scarce.

Mr. J. H. Rebstock has departed on a trip to the southwestern states and Mexico. It is said for his health but as he

has the orchid fever, we expect to see huge cases of lycastes and other Central American orchids arrive in Buffalo very shortly.

The only member of the executive committee to honor Buffalo with a call on his return east was Mr. Dunlop of Toronto, with whom we had a very pleasant chat for a couple of hours. He seemed well pleased with St. Louis and her florists, only remarking that it was a good ways off. He meant from Toronto of course.

Mr. John Pickleman, for the past five years manager of Mr. Rebstock's Elmwood Avenue establishment, is about to join his uncle in business on French street. They have six large houses, just rebuilt and heated on the most approved system. They intend to do an exclusively wholesale business. There is no doubt plenty of room for them.

That most witty and excellent picture of the Duke of York mounted on his "milk white steed," will I think be the means of getting many to follow him to Pittsburg. There will be a good delegation from here to hear the great authorities speak their pieces. Carnations, like chrysanthemums, will soon be too numerous in variety and those who can't afford to experiment with all the new varieties will have to set aside an hour or two every day to study up the characters of different claimants to favor. Still with all that, we only want the best if we can find out which they are.

S.

Chicago.

The milder weather seems to have had a good effect upon the market; trade is reported as much better than a week ago, and sales are generally good. Flowers are not in over-supply, excepting some of the bulb stock, and stock is good in all classes. Dark blue or purple Dutch hyacinths are in larger quantity, but they do not sell as well as daffodils or tulips; the color does not seem to be greatly fancied. Very few white Dutch are in, and none of the paler colors. Valley is very plentiful. Daffodils are seen in much larger quantities than last week; they are in good demand. Harrisii and callas are seen in quantity; prices rather lower. Violets are also lower, but the market is, on the whole, firm, and the week opened in a very encouraging manner.

The judge appointed to pass upon the primulas at the World's Fair, was Mr. Pfister, gardener at the White House. His opinion must be ratified by a jury who meet in May, when the plants will be entirely past and done, so in this case the opinion of the judge alone must be confirmed by the jury, since they have no possibility of forming an opinion at that late day.

Mr. Jno. Thorpe has been confined to his home by illness for a week past.

The wife of Mr. S. A. Wolcott, of the firm of Patterson & Wolcott, died at her home in Batavia, Ill., December 26, aged 41 years. Mrs. Wolcott was a most amiable and lovable woman and was very active in every good work. She leaves a grief stricken husband, a motherless infant and three other children in addition to a large circle of warm personal friends. Mr. Wolcott has the heartfelt sympathy of his many friends in the trade.

Four men entered Samuel Muir's flower store on Michigan avenue January 5, and pointing revolvers at John Reardon, who was in charge, robbed him of \$14.

New York.

The past week has been the dullest of the season and much complaining has been heard. The weather, although very cold, has been clear, and roses are coming in lively again. Prices have gone away down on some varieties, large lots of average quality being offered at summer figures. Carnations are terribly overstocked, and have been sold as low as \$5 per thousand. The same is true of bulbous stock. Lily of the valley has dropped, \$4 per hundred being the outside price. Another flower that is overstocked is the Harrisii lily, which is almost dead at present. Violets are plenty, and bring \$1.00 to 1.50 per hundred.

Ernst Asmus has contracted for the erection of eleven more greenhouses. Mr. Robt. Simpson, for many years foreman for Mr. Asmus has accepted a similar position with Mr. A. N. Pierson, Cromwell, Conn., to which place he moved on 16th inst.

Mr. Wm. Plumb, recently with Young Bros., has taken a position with J. H. Small & Sons, 1153 Broadway, New York, to which address all communications intended for him should be sent.

The members of the Executive Committee of the Society of American Florists have all returned, and tell interesting tales of their experience on belated trains.

Mr. Robt. B. Young has been confined to his home by illness for the past two weeks.

A meeting of all the committees of the New York Florist Club took place on Monday, 23d inst., and the work for the coming season was mapped out.

News Notes.

STAMFORD, CONN.—The Gurleys, of Glenbrook, have purchased the business of A. B. Hoffman, 49 Atlantic Square, this city.

NEW ORLEANS, LA.—The Horticultural Society here has issued the announcement of their sixth annual exhibition of plants, flowers, and floral work, which will be held March 23 to 26.

GRAND RAPIDS, MICH.—The Grand Rapids Floral Co. (F. M. Strong and J. A. Creelman) is a new firm that started into business here last fall with eight houses, containing 14,000 feet of glass.

CINCINNATI.—No meeting of the Cincinnati Florists' Society on the 14th as expected. Too cold. Business is picking up a little, but indications are that we will have a high river next month—it is still frozen solid.

MILWAUKEE, WIS.—Wm. Edlesfen has purchased land in the northwestern part of the city, where he will soon erect an extensive greenhouse plant. He has not yet stated whether he will build with the long span to the south or not.

NEW ORLEANS.—Eichling Bros., opened a florist store at 130 Canal Street last June. C. W. Eichling and Richard Eichling compose the firm. But the senior member still continues in business on his own account at 279 Decatur Street.

OTTAWA, ILL.—The twenty-sixth annual meeting of the Hort. Society of Northern Illinois will be held in this city February 8 and 9. The program has been issued and copies may be had on application to J. L. Hartwell, secretary, Dixon, Ill.

CLEVELAND, O.—Williams, Gomett & Willson is the name of a new firm that will do a wholesale florist business here. The company intends to build a range of twenty large greenhouses, and will commence work on same as soon as weather will permit.

NASHVILLE, TENN.—Robert Wueir, for 15 years with the Rosebank Nursery Co., died recently. We have had cold weather here for six weeks and the river here is frozen from bank to bank. It don't look natural to us Southerners to see people skating on the river.

CHATHAM, N. J.—A steam boiler used by Mr. L. C. Dickhut for watering only, and that he purchased for a new boiler two years ago, gave out December 23, causing much trouble, and a great deal of damage would have been done had not an employee been present when it began to leak. The boiler men who were called in to make repairs stated that the makers of the boiler had used old flues and that this accounted for the boiler giving out so quickly. Mr. Dickhut wishes to warn buyers of boilers to inspect the flues of new boilers carefully before investing that they may be saved the unfortunate experience he has had.

SITUATIONS, WANTS, FORSALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a Christian single man, experienced in rose culture and general greenhouse work. Good reference. Address: O. K., care American Florist Co.

SITUATION WANTED—As grower of roses, carnations, etc., 10 years' experience; single. Good reference. State salary and full particulars. ROSE GROWER, care American Florist.

SITUATION WANTED—By competent florist and gardener; open for engagement by first part of February; single man; German. Address: W. H. GARDNER, care Walther Harvey, 14 Federal St., Allegheny City, Pa.

SITUATION WANTED—As foreman of first class commercial place by florist of extended experience; well versed in all branches from a violet to an orchid. Good references. Address: DION, care American Florist, Chicago.

SITUATION WANTED—As florist; experience 16 years; first-class designer and cut flower worker; married; single family. Can give the best of reference. First-class in all branches of the business. Apply 306 E. Clay Street, Vicksburg, Miss.

SITUATION WANTED—By a man 44 years old, single, 24 years experience, a commercial or private place, would like to take charge of a smaller establishment; references. GEO. MCNICHI, 142 Bank St., Butavia, N. Y.

SITUATION WANTED—As florist and propagator, growing roses, carnations, palms, ferns, bulbs, orchids and other soft plants; single, age 32; 10 years experience. Address: CHARLES HANDEL, 65 70th St., Parkside, Chicago.

SITUATION WANTED—By a Swedish gardener, as foreman on private or commercial place; thorough experience in every branch, especially rose growing and nurseries; married; married. Best references. Good wages expected. Address: ROSE, care Mr. Christy, Glenbrook, Conn.

WANTED—To purchase an established florist store in Chicago. Give full particulars and price. Address: B. L., care American Florist.

WANTED—In Montana, florist and gardener; state experience and wages expected with board. Address: MONTANA, care American Florist, Chicago.

WANTED—Rooted cuttings of American Beauty, The Bride, Brudenial, Perle, Meteor and Hoste, also Marie Louise Violet. Address: VALLEY, care American Florist.

WANTED—Vegetable gardener by March 1st, on gentleman's country place, single man, one who thoroughly understands growing all kinds of vegetables; situation permanent; state wages expected and give reference. Address: GAIDENER, P. O. Box 156, Philadelphia, Pa.

WANTED—For my florists' business, a steady, competent and reliable assistant who is not afraid of work, who can and will make himself practically helpful. Wages will be paid to the full value of services rendered and place permanent to the right man. State qualifications carefully with former experience, wages required, etc. J. ELLIOTT, Floral Nurseries, Auburn, N. Y.

FOR SALE—At a bargain and on easy terms, a good business in a flourishing city near St. Paul. Profit profits over \$1,200 per annum. Address: SELLER, care American Florist.

FOR SALE—Florist and nursery business, 3 houses, 2,500 feet of glass, all new; within 100 miles of Chicago. Good shipping point; good reason for selling. Address: A. B., care American Florist.

FOR SALE—Frying florist's business, large selected stock, good patronage, home and abroad, 5-acre lot, good dwelling, splendidly located; best reasons for selling. Address: PROF. BAGLEY, Adelaide, Kans.

FOR SALE—A well established floral business, over 2,000 feet, steam heated, well stocked with roses, carnations, and a large general stock, in a thriving town, two colleges, no opposition. Address: W. A. BUCK, WILLIAMS ST., Box 810, Geneseo, Ill.

FOR SALE—12 section boiler; will heat 2,000 feet 4-inch pipe, or 400 2-inch under pressure, or steam; has been used four years; is in good condition. Price \$155. Address: W. A. BUCK, 229 North Ave., No. Cambridge, Mass.

FOR SALE—Two acres, 3-room dwelling house, barn 100 ft., greenhouse 22x10, hot water, boiler house, shop and tank with sprinkling attachments, well and cistern, 50 holed sash with frames; everything nearly new, on Chicago avenue just east and sheltered by the timber belt in which Oak Park and Galesburg are situated, 7 miles from the business center of Chicago. Sash and street cars pass within four blocks; paved streets nearly all the way. Price \$12,500. Terms to suit. Will sell 100 feet front of 200 feet deep, 2,000 square feet with above improvements for \$3,000. This property must be sold, as I am unable to attend to it on account of sickness. Investigate. F. J. ROBINSON, 125 Chicago Ave., Oak Park, Ill.

WANTED.

Shade Trees in sizes ranging from 1½ inches to 4 inches in diameter. Many quantities, varieties, sizes (diameter) and prices.

J. W. ELLIOTT,
Pittsburg, Pa.

FOR SALE.

Ten greenhouses, about 15,000 square feet of glass, with two acres of land, and stock for sale very cheap. The houses are in good condition, situated in one of New England's best localities, with a large and extra good home market; heated by a first-class steam plant, cost \$1200, pots and implements. This is a fine opportunity for one wishing to buy an Established Business, as the property is in good condition, ready for the coming season, and will be sold, as the present owner has other interests to look after.

For further particulars apply to

N. D. WINTER,
No. 5 Elm Street, Springfield, Mass.

New Pink Carnation "BERTHA STAHL."

In color between Wilder and Fidel Wave, an immense bloomer, and all on long stems.
READY JANUARY 15, 1893.

Per doz. \$1; per 100; \$6; per 1000, \$50.

CHESTER PRIDE (original stock).
W. F. DREER, LIZZIE MCGOWAN,
SEAWAN, PORTIA,
HINZE'S WHITE, MRS. FISHER,
GRACE WILDER, and others, now ready.

Terms cash with order. Prices reasonable and satisfaction guaranteed.
W. L. EDWARDS, Norwood, Del. Co., Pa.

VERBENAS
MAMMOTH
BEST SORTS,
CLEAN, HEALTHY,
Stock plants, \$3.00 per 100.

FOR MARCH DELIVERY.
Plants..... \$2.50 per 100; \$20.00 per 1000
Rooted Cuttings..... \$1.00 per 100; \$8.00 per 1000
Polegationum Fred Bonner..... \$1.00 per 100
Pin-stock 11 P., Ten and Fouring Roses.
JOSEPH HEINL, Jacksonville, Illinois.



Fancy.

Dagger.

ESPECIALLY FOR FLORISTS' USE.

SPECIAL ATTENTION PAID TO SUPPLYING THE WHOLESALE TRADE.

FIRST QUALITY HARDY CUT FERNS, \$1.25 per 1000.

In lots of 5000 and upwards, \$1.00 per 1000.

L. B. BRAGUE, Hinsdale, Mass.

MUSHROOM Growers are not saying much; but they wear a satisfied smile that is eloquent. "A crop in five weeks, and a dollar a pound."



We keep the genuine English Milltrack Spawn, always fresh, and unsurpassed in quality.

40 lbs. 25 lbs. 50 lbs. 100 lbs.
\$1.20. \$2.75. \$5.00. \$8.00.

Special prices on large quantities. Our pamphlet on growing free to all.

JOHN GARDINER & Co.,
PHILADELPHIA, PA.

Mention American Florist.

ZIRNGIEBEL'S NEW AND IMPROVED STRAINS OF

ASTERS—Parisian, extra Early Dwarf forcing, will bloom by Easter. Zirngiebel's Extra Market for general crop. Both strains in white or colors.

STOCKS—Early Dwarf White and Dwarf Yellow.

MIGNONETTE—New Golden, selected seed.
NEW PERPETUAL SCOTCH PINKS and our well-known strains of **GIANT MARKET** AND **FANCY PANSIES**.

Any of the above in trade packages at \$1.00 each.

DENYS ZIRNGIEBEL,
Needham, Mass.

Mention American Florist.

Gladiolus Bulbs.

Selected Stock, 1st Size, \$10 per 1000

This is of superior quality, consisting of a large number of named varieties and seedlings, and mixed together. While many thousands of the least desirable have been destroyed, the best have not been taken out to be sold at a higher price, as I never sell any under name or color.

Bulbs one and one-half inches in diameter and upward.

M. CRAWFORD, Cuyahoga Falls, O.

Mention American Florist.

4,000,000 Hardy Evergreen Cut Ferns

Cypripedium Chamberlainianum.

Considerable interest was aroused in orchid circles by the introduction of this undoubted novelty in ladies' slippers and various were the opinions held as to its value. Time has in some measure resolved the problem, and there can be no two opinions as to its claim on public taste. Since its first appearance in public in April, 1892, before the orchid committee of the Royal Horticultural Society in London, when a plant in bloom was exhibited by the introducers, Messrs. Sander & Co., and awarded a first-class certificate, many opportunities of judging its merits have occurred, and although there is often a weakness in the petals, which frequently twist in an irregular manner, and the dorsal sepal is not always so glowing as the original description led us to hope, yet these features are almost obliterated by the unvarying beauty of its shell like pouch. This is decidedly beautiful; it is of perfect form, densely spotted with crimson purple on a rose ground; the margin of the pouch is frequently tinted with canary yellow. Among the scores of plants that I have seen a really poor one could not be pointed out. As I said before, time has in some measure resolved the question of its merits, yet so far only a two flowered inflorescence has been seen. This will in all probability be remedied when time has been allowed the plants for a thorough adaptation to their changed surroundings. On the old dried spikes exhibited when the plants were offered at auction in London as many as 20 to 30 flower bracts were seen, but I am inclined to think that it will prove itself to be like C. Sedeni in its habit of flowering and that no great number of flowers will be expanded at one time. One most desirable quality it has, and that is it is an almost perpetual bloomer; anyone having a dozen plants or even less will always have a flower to show. It is also a most vigorous growing plant; newly imported plants root with the utmost freedom and soon form broad healthy leaves. These two qualities—free growth and a succession of bloom—should make it an eagerly sought for aid to the hybridist and its value in this respect is much enhanced by its decidedly distinct formation. There is very little doubt, however, that these facts have not been lost sight of by many who delight in the interesting occupation of orchid production, and many are the quaint and beautiful results that may reasonably be expected from the intercrossing of so striking a novelty, and the question is—who will be first? D.

THE WESTERN GARDEN is the title of a new monthly, designed to meet the needs of western amateurs. It is published by H. H. Given at South Denver, Col., and is a neat and attractive little paper.

IF YOU NEED ANY

Cape Flowers, Immortelles, Grasses, plain or fancy Baskets, Metal Wreaths, Letters, Doves, or any other thing in the Florists' supply line, mail us your order.

REMEMBER WE ARE THE

Leading Manufacturers of Wheat Sheaves and Baskets, and Importers of Florists' Supplies.

Catalogue on application.

ERNEST KAUFMANN & CO.,

113 N. 4th Street, PHILADELPHIA, PA.

T. J. CORBREY & CO.,

45 LAKE STREET,
CHICAGO.

We are prepared to fill shipping orders with the best flowers in the Chicago market. Orchids in five, ten, fifteen and twenty dollar boxes.

Give us a trial when you want anything in the Cut Flower line.

CONSIGNMENTS SOLICITED.

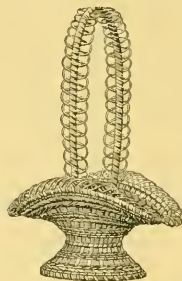
Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.
10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.

OUR SPECIALTY.



S

For Florists, Plain and Fancy; also a full line of

FLORISTS' SUPPLIES,

At Wholesale only. Send for List.

August Rölker & Sons
New York,

P. O. Station E. 136 & 138 W. 24th Street.

H. BAYERSDORFER & CO.,
WHOLESALE

FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,

FLORISTS' SUPPLIES,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
103 Van Winkle St., Jersey City, N. J.

AGENTS:
J. C. Vaughan, Chicago, Ill.
H. Bayersdorfer & Co., Phila., Pa.

ROOTED CUTTINGS.

CARNATIONS, COLEUS, CHRYSANTHEMUMS
and miscellaneous bedding plants cheap
for cash. Send for Price List.

J. J. CONNELLY, Bryn Mawr, Pa.

HARDY CUT FERNS?

Oh Yes, over

5,000,000.

I can supply you the year round with A1 goods. Also new Bouquet Green, Laurel festooning, etc.

H. E. HARTFORD,

18 Chapman Place, BOSTON, MASS.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),

WHOLESALE
FLORIST,

1122 FINE STREET,
St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES.

1402 PINE ST., ST. LOUIS, MO.

H. L. SUNDERBRUCH,

WHOLESALE FLORIST

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,

COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

FINE CUTTINGS

—OF—

Asparagus Plumosa

JOHN BURTON,

Chestnut Hill, PHILADELPHIA, PA.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
 WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
 Incorporated
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 and Dealers in FLORISTS' SUPPLIES.
 CHAS. W. MCKELLAR, Mgr.
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

M. OLSON,*
Wholesale FLORIST,
 66 WABASH AVENUE,
 Telephone 4786. CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE
FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
PHILADELPHIA.
 Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th ST.,
 Philadelphia, Pa.

SMITH, The Florist,
 GROVER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
 77 S. 7th Street, MINNEAPOLIS, MINN.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 24.	
Roses, Bon Silence, Gentler.	2.00 to 3.00
Perles, Niphotos.	2.00 to 4.00
" Mornet, Bride, Hoste.	3.00 to 8.00
Cusin, Waterville.	5.00 to 10.00
" Bridesmaid.	5.00 to 10.00
" La France, Albany.	5.00 to 12.00
" Beauty.	15.00 to 100.00
Hybrids.	25.00 to 50.00
Carnations.	2.00 to 1.00
Mignonette.	2.00 to 8.00
Romans, narcissus.	2.00 to 5.00
Tulips, Valley.	2.00 to 10.00
Harrisil.	4.00 to 10.00
Violets.	1.00 to 1.00
Adiantum.	1.00 to 1.00
Smilax.	20.00
Lilac (bunch).	1.00 to 2.00

BOSTON, Jan. 24.	
Roses, Niphotos, Gentler.	3.00 to 6.00
" Perle, Sunset, Wootton.	6.00 to 10.00
" Bride, Mornet.	3.00 to 10.00
" Meteor.	15.00 to 20.00
" Beauty.	50.00 to 25.00
Hybrids.	50.00 to 15.00
Carnations.	1.00 to 1.50
Valley, tulips.	2.00 to 4.00
Hyacinths, daffodils.	3.00 to 4.00
Violets.	1.00 to 1.50
Mignonette.	1.00 to 5.00
Callis, Harrisil.	10.00 to 15.00
Pansies, Fresh.	1.00 to 1.50
Adiantum.	1.00
Asparagus.	50.00

PHILADELPHIA, Jan. 24.	
Roses, Perles, Gentler, Niphotos, Sunset.	3.00 to 6.00
" Mornet, Bride, Albany.	3.00 to 10.00
" La France.	10.00 to 2.00
" Hoste, Cusin, Waterville.	5.00 to 8.00
" Bennett, Meteor, Guillot.	5.00 to 15.00
Beauties.	25.00 to 10.00
" American Belle.	50.00
" Brummers.	50.00 to 15.00
Lilac, Mornet Charta.	30.00 to 10.00
Carnations.	1.50 to 2.00
Mignonette.	1.00 to 5.00
Hyacinths, narcissus.	2.00 to 4.00
Valley.	4.00 to 5.00
Daffodils.	3.00
Tulips.	4.00 to 6.00
Preslia.	1.50
Callis, Harrisil.	10.00 to 15.00
Adiantum.	1.00 to 1.5
Asparagus.	15.00
Smilax.	15.00 to 20.0

CHICAGO, Jan. 24.	
Roses, Perle, Niphotos, Gentler.	4.00 to 5.00
" Mornet, La France, Bride.	6.00 to 8.00
" Albany, Wootton, Bennett.	6.00 to 8.00
" Beauty.	20.00 to 25.00
Carnations short.	1.00 to 1.50
" white, long.	1.50 to 2.50
" colored.	1.00 to 3.00
" fancy.	3.00 to 4.00
Romans Valley.	2.00 to 4.00
Tulips.	2.00 to 6.00
Narcissus.	3.00 to 6.00
Dutch hyacinths.	6.00 to 10.00
Violets.	1.00 to 2.00
Callis, Harrisil.	10.00 to 15.00
Mazguettes.	75 to 100
Heliotrope.	1.00
Alyssum.	1.00
Smilax.	15.00 to 15.00
Adiantum.	1.00 to 1.25

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
 — WHOLESALE —
 67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.
 We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.
 ADUCTION SALES OF PLANTS SPRING AND FALL

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
 — WHOLESALE —
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application

HUNTER & PURDY,
 WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.

FRANK D. HUNTER. JAMES PURDY,
 Formerly 112 W. 4th St.

JAMES HART,
WHOLESALE FLORIST.
 117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRs,
 — WHOLESALE —
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
NEW YORK.

The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will
 be 20 cents per string. Quality first-class. Prompt
 attention to orders by wire.
 J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.
 When writing to any of the advertisers
 on this page please mention the AMERICAN
 FLORIST.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. Don, New York, secretary and treasurer. The eleventh annual meeting at Chicago, August, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

American Seed Trade Association.

The executive committee of the American Seed Trade Association convened at the Cosmopolitan Hotel, New York City, on Tuesday, January 17. There were present President J. C. Vaughan, Secretary A. L. Don, E. B. Clark, Wm. Meggatt, S. F. Willard, Robt. George and R. S. Robbins. The annual convention will take place at Chicago and the date was fixed for Monday, Tuesday and Wednesday, August 14, 15, 16, the closing day being the date of the opening of the World's Auxiliary Congress.

A full program of papers to be read and matters to be discussed was outlined and the question of papers for the seedsmen's division of the Congress (of which Mr. Burpee is chairman) was taken up and referred back to the committee with instructions for immediate action. Copies of the circular sent out in relation to the World's Auxiliary Congress may be obtained by applying to Mr. J. C. Vaughan.

There were present in the city besides the members of the committee, Messrs. Rogers Bros., T. V. Maxon, W. A. Burpee, W. B. Hayt and Burt Eddy.

THE FIRM of Joseph Breck & Sons has been incorporated under the laws of the Commonwealth of Massachusetts, capital \$125,000. Directors: Charles H. B. Breck, president; Charles H. Breck, treasurer; Joseph F. Breck, secretary; Edward O. Hatch, general manager; Archibald Smith, manager seed department. This corporation succeeds to the assets and good will of the former firms of C. H. Thompson & Co., established in 1853; Parker & Wood, established in 1845; Joseph Breck & Sons, established in 1822. They have remodeled and enlarged their stores, and have secured the services of their most experienced and efficient employees.

AT THE RECENT MEETING of the Seedsmen's League the proposition to increase the membership list beyond the original nine did not meet with favor, mainly, it is said, because of opposition to some of the names suggested as new members. Some of the original members are reported to have dropped out.

THE new catalogues are mostly out. They do not show much reduction in expense. Orders so far are fair, though it is believed that the cold weather has some effect on them. The prevailing impression is that a good trade will be had.

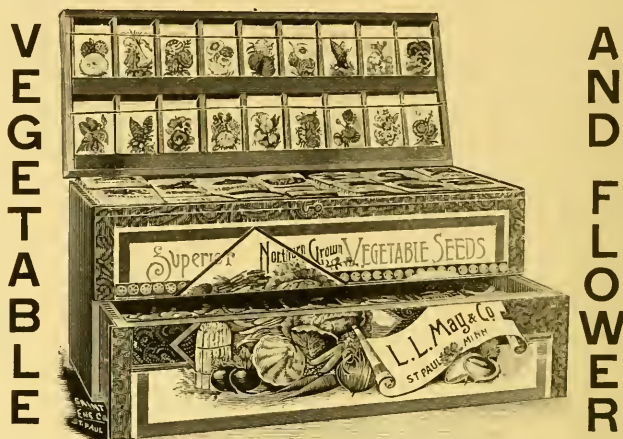
FIRST CLASS tuberosc bulbs are getting scarce. Very few are now remaining in growers' hands and prices are sure to advance. Large cable orders from Europe have braced up the market, while several lots have been frozen.

SWEET PEAS are getting very scarce, while nearly every advertiser seems to be pushing them by special offers.

WM. MEGGATT claims that his stock of onion seed is now less than at the same time last year.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

MAY'S New Combination Box Seeds.



IN THREE SIZES, A, B, C.

The above illustration is a correct representation of **Our New Combination Box**. It is elegantly finished and lithographed and will make a handsome counter ornament. Our principal object in offering this box is to fill a long-felt want among dealers, whose trade does not warrant them laying in a line of **Bulk Seeds**. The assortments are made up by us and not subject to change. They are, however, so arranged as to suit the requirements of trade in any section of the country, our long experience in the seed business qualifying us well to please you, and serve you satisfactorily.

As below, we give you a summary of what these boxes in the different sizes contain, together with retail and wholesale prices. If desirous of knowing assortment, write to us, stating the size of box you want, and we will mail you special circular, giving full particulars:

SUMMARY OF "COMBINATION BOX A."		Retail.
300 Flat Papers Vegetable Seeds	at 5c.	\$15 00
75 Flat Papers Flower Seeds	at 5c.	3 75
30 Flat Papers Flower Seeds	at 10c.	3 00
25 Square Packages	at 15c.	3 75
5 Square Packages	at 25c.	1 25

WHOLESALE PRICE OF "COMBINATION BOX A." \$10.

SUMMARY OF "COMBINATION BOX B."		Retail.
500 Flat Papers Vegetable Seeds	at 5c.	\$25 00
75 Flat Papers Flower Seeds	at 5c.	3 75
30 Flat Papers Flower Seeds	at 10c.	3 00
50 Square Packages	at 15c.	7 50
10 Square Packages	at 25c.	2 50

WHOLESALE PRICE OF "COMBINATION BOX B." \$15.50.

SUMMARY OF "COMBINATION BOX C."		Retail.
750 Flat Papers Vegetable Seeds	at 5c.	\$37 50
150 Flat Papers Flower Seeds	at 5c.	7 50
48 Flat Papers Flower Seeds	at 10c.	4 80
80 Square Packages	at 15c.	12 00
12 Square Packages	at 25c.	3 00

WHOLESALE PRICE OF "COMBINATION BOX C." \$23.

• ROSES FOR SUMMER USE. •

We have a fine stock of the following named roses, strong, healthy plants from 2½-inch pots which we offer for delivery in March, April and May:
Cusin, Perle, Hoste, Sinsel, La France, Niphetos, Pierre Guillot, Souv. d'un Ami and Malmaison at \$5.00 per 100. Albany and Meteor at \$6.00 per 100. Will also have a large stock of other sorts, such as Brides, American Beauty, Mermets, Woottons, Etc. for later planting. Prices given on application.
FLORISTS and all others using flower seeds should write for our Wholesale and Retail Catalogues. We are headquarters for all varieties of Flower Seeds for Florists' use and have valuable Novelties never offered before.

L. L. MAY & CO.,
FLORISTS AND SEEDSMEN,
ST. PAUL, MINN.



BEST GERMAN FORCING PIPS

Price: \$9 the 1000,
\$20 the box of 2500,
Less ten per cent. for prompt cash.

August Rölker & Sons
New York, P. O. Station B.

BENJAMIN RIMBAUD, BULB GROWER,

Quartier du Temple, Toulon, var, France.
Cable address Benrimbaud, Toulon.

The largest cultures in the South of France, of
WHITE ROMAN HYACINTHS, Narcissus Paper White grandiflora, N. Double Roman, N. Double Von Sion, true pure yellow, and other Daffodils. Liliun Candidum, the largest bulbs. Frezias. Jonquilla Campanell, latest flowering for early forcing. Allium, Anemone, Cardinal's Hat, A. Double Rosette the earliest, etc. Prices on application.

**STOCK THAT
SELLS WELL!**

LILY OF THE VALLEY

**FROST RIPPENED.
BEST HAMBURG PIPS.**
ASPIDISTRA, variegated leaved.
FICUS ELASTICA, spring propagated.
Get lowest quotations, and order soon from
THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

LILY OF THE VALLEY PIPS.

125,000 Berlin, extra selected quality offered for sale from cold storage.
At reduced prices according to quantities.
G. C. ABEL & CO., New York.
P. O. Box 120.



Send for Catalogue of
**JAPAN BULBS, SEEDS,
AND SHRUBS.**
**ARAUCARIAS,
AUSTRALIAN Palm Seeds,**
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

LILIUM HARRISH.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

You have heard how

Burpee's Seeds Grow.

Have you seen what they grow? If you want the choicest Vegetables and most beautiful Flowers in your Garden, you should read

Burpee's Farm Annual for 1893,

which tells all about the **BEST SEEDS** that grow.

Unlike many Catalogues, it tells the plain, unvarnished truth,—illustrations and colored plates from nature. Many new features for 1893,—original and interesting. A handsome book of 172 pages, it shows progress of the most popular Seeds in America.

Mailed **FREE**, if you need seeds; otherwise for 10 cents, which is less than cost. Study **WHERE AND HOW SEEDS ARE GROWN**, and do not be misled by the sensational advertising of the day.

W. ATLEE BURPEE & CO., Seed Growers,
PHILADELPHIA, PA.

BURPEE'S BLUE LIST, giving wholesale prices for Market Gardeners and Florists, will be mailed on application.

WE SELL SEEDS

TO FLORISTS AND DEALERS.

WEEBER & DON,

SEED MERCHANTS AND GROWERS,
114 Chambers St., New York.

Catalogues on Application.

OSKAR KNOPFF & CO., SEED GROWERS,

Erfurt, = Germany,

FLOWER, KITCHEN GARDEN, ETC. SEEDS.

Best qualities at low prices. Orders promptly executed.

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

Trade Catalogues for 1893 free on application.

Dreer's Double Petunias.

We offer a splendid lot in fifteen varieties of the best market sorts. The set is composed of the finest double fringed sorts, and equal to any ever sent out. Strong stock plants from 3-inch pots. \$1.25 per doz; \$1.50 for set, or \$10 per 100 all named.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

Free Flowering Freesia.

I would like somebody to tell me if Freesia refracta alba gives more than 40 to 50 flowers and buds to the bulb.

I have got a lot planted in a box on a top shelf of a large greenhouse, the flower stems of which are branched into 3 to 5 prongs, each with from 10 to 14 flowers and buds. Some single bulbs giving more than 60 to 65 buds and flowers. It would be a grand sight to have one such bulb in a 3 or 4-inch pot staked up nicely and showing, as these do, such an enormous mass of flowers and buds.

F. J. ULBRICHT.

Anniston, Ala.

A Fuel Saver.

There have been several agents here selling a coal saving article that would make a perfect combustion and a saving of $\frac{1}{4}$ in coal used. I tried some and found it to be a good thing. Since then I have been experimenting and I find that 4 pounds of common table salt to 6 gallons of water, applied with a fine rose watering pot to one ton of coal, will make a much better combustion. I tried it on fuel used in an old tubular boiler and I found less coal was used and 25 per cent. more heat obtained. It will improve soft coal as well. I would like your readers to try it and report results. JAMES FRASER.

Kalamazoo, Mich.

ROCHESTER, N. Y.—Trade was good in holly, etc. Too cold to send out plants, and the weather affected the sale of flowers. Zero in a lake region means cold. We find our best customers, who a few years ago bought roses at Christmas time, have given it up lately. When Mermets cost \$25 to buy in New York, and generally poor at that, people don't want them badly enough to pay cost for them, and one of our memorandums for next Christmas is to buy in New York roses. Last year we had three days pouring rain, so we can't compare the two years.

S.

GENUINE CHINESE SACRED LILIES

In original imported baskets of 30 large fine bulbs, per basket, \$1.25.

It will pay you big to grow them. Innumerable flowers can be cut from them. Make money, buy some, order now.

H. G. FAUST & CO.,

64 & 66 N. Front St., PHILADELPHIA, PA.
Woodlawn Seed Farm, Philadelphia, Pa., 1,300 acres.

Water Lilies.

SEEDS, TUBERS and PLANTS.

Now is the season to sow seed and start tubers if you desire to raise good stock for next summer flowering.

NYMPLIEA SEED of varieties, 50 cts. trade price; \$1.00 per ounce.

WM. TRICKER, Dongan Hills, S. I., N. Y.

CHRYSANTHEMUMS.

ROOTED CUTTINGS.

Lincoln, Ada Spaulding, Domination, L. Boehmer, Robinson and 300 other good market sorts, \$1.50 per 100; Ivory and Jovita, \$2.50 per 100. Ready for delivery January 15th.

Address

J. G. BRAWOR,

FISHKILL, N. Y.

ROOTED CUTTINGS

GOOD ONES.

Verbenas, 22 varieties.....	per 100, \$	1.00
Coleus, 12 varieties.....	per doz.	1.00
Chrysanthemums, 40 varieties.....	per doz.	1.00
Fuchsias, 10 varieties.....	per doz.	1.00
Heliotrope, 4 varieties.....	per doz.	1.00
Double Abies.....	per doz.	1.00
Clear Plant.....	per doz.	1.00
Manettia Vine.....	per doz.	1.00

J. E. PLESBURY, Macomb, Ill.

BULBS AND TUBERS.



Tuberous Rooted Begonias, Fancy Leaved Caladiums, Crassifolia Gloxinias, Double, Single and Cactus Dahlias.



We offer the following bulbs, largely grown by ourselves, extra fine stocks and first-class in every way. Desirable and salable varieties to be offered in retail circulars and catalogues.

	Per doz.	Per 100
AMARYLLIS Formosissima.....	\$1.00	\$ 7.00
Johnson.....	4.00	30.00
Vittata.....	2.50	20.00
BEGONIAS, Tuberous Rooted, Finest mixed Singles.....	Per 100	Per 1000
" " " " Double.....	6.00	50.00
" " " " Single, Scarlet, Crimson, Yellow, White, Orange and Pink.....	1.50	12.00
DAHLIAS Pompage, Show Cactus, and Single varieties in fifty finest named sorts, strong ground roots.....	1.50	12.00
GLOXYRA SPECTABILIS, strong clumps.....	1.00	6.00
GLOXINIA CRASSIFOLIA in the finest mixture, extra selected bulbs.....	1.50	12.00
First size.....	1.00	10.00
Second size.....	.75	8.00
CALADIUMS, fancy leaved varieties in thirty distinct named sorts.....	2.00	15.00
IPOMEEA PANDURATA.....	.50	4.00
TIGRIDIA Conchiflora.....	.50	5.00
Grandiflora.....	.50	3.00
Alba.....	.50	3.00

Orders booked now and reserved until weather moderates or shipment requested.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

CARNATIONS!

Study my WHOLESALE LIST of Rooted Cuttings

. . . before ordering. . . .

F. M. PENNOCK,

Bloomfield.

Charles Town, Jefferson Co., W. Va.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace Darling, Daybreak, Pearl, White Wings, Lizzie McGowan, Louise Porsch, W. F. Dreer, J. K. Freeman, and many other varieties; fine, healthy stock, ready January and after.

HYBRID PERPETUAL ROSES

500 Paul Neyron, strong plants.....\$9.00 per 100.
20 other leading varieties.....\$10.00 per 100.
\$8.00 per 100.

CHRYSANTHEMUMS.

ROOTED CUTTINGS. Large assortment of new and old varieties in good healthy stock at low figures. 25¢ send for price list.

WOOD BROTHERS,
Fishkill, N. Y.

"CHRY-COLA"

COLEUS, best Varieties, best

Stock, now ready.

SEND FOR PRICE LIST.

FUCHSIAS,

GERANIUMS AND

CHRYSANTHEMUMS

are ordered to Feb. 15th, with the exception of a few varieties.

I am now booking orders for delivery after above date.

S. B. FIELD, Roselle, N. J.

Tuberous Begonias.

Good strong tubers, \$6 per 100.

Especially fine bright red, also white, yellow, pink. We also sell young plants of above, ready in April, per 100, \$3 00; Mixed, \$2.50, postpaid for cash.

BRAUER & RICHTER,

MCCONNELLSVILLE, O.

Always mention the American Florist when writing to advertisers.

Rooted Cuttings.

Carnations Hinze's White, Mrs. Fisher, Silver Spray, Jeannette, Grace Wilder, Fred Creighton, Mayflower, Century, Anna Webb, \$1.50 per 100; \$10 per 1000.

Orange Blossom, Portia, Hector, Florence, American Flag, \$2 per 100; \$15 per 1000.

Coleus, leading varieties, including the finest Yellow Coleus in cultivation. A new variety equal to Golden Bedder in color, and as good a grower as C. Verschaffeltii.

Double Petunias in four finest varieties.

Fuchsias, finest named varieties, \$1.50 per 100.

Heliotrope \$1.00 per 100.

Ageratum, Dwarf, White and Blue, \$1.00 per 100.

500 at 1000 rates. Cash with order. 10 cents per 100 extra when shipped by mail.

JAMES HORAN, Florist,

BRIDGEPORT, CONN.

Mention American Florist.

ROOTED CUTTINGS of CARNATIONS

By the Wholesale.

Ready now. This is the best time for intending buyers to supply themselves. I offer them at moderate prices. Send for Price List. Address

JOSEPH RENARD, Unionville, Chester Co., Pa.

VIOLETS.

MARIE LOUISE RUNNERS

Healthy Stock. Good Plants.

ANDREW WASHBURN,

P. O. Box 1125, BLOOMINGTON, ILL.

Always mention the American Florist when writing to advertisers.

NOW
IS THE
TIME

TO BUY

Carnations!

You want the BEST. We will give you the BEST ROOTED CUTTINGS to be had, if we get your order.

A postal card, with your address, costs one cent, will bring our TRADE LIST, the neatest of the year. It tells you all about the newest and best varieties. It tells the truth, and it's the truth that tells.

We also have COLEUS when you need them. You will certainly want our new yellow coleus.

ALEX. McBRIDE,

. . . . ALPLAUS, N. Y.

W. R. SHELMIRE,
Carnation Grower
AVONDALE, CHESTER CO., PA.

Send for price list of Rooted Cuttings.

CARNATIONS

ROOTED CUTTINGS

of all the leading varieties. Will be ready
January 1, 1893.

R. T. LOMBARD, Wayland, Mass.

ROOTED CUTTINGS OF

CARNATIONS

All the leading varieties.
Fine stock Buttercup.

CHAS. T. STARR, Avondale, Chester Co., Pa.

CARNATIONS

ROOTED CUTTINGS.

Send for Price List of all the leading
varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.

ROOTED CUTTINGS

Of the Best Old and Most Promising new
varieties of

CARNATIONS.

Write for a catalogue and send list of
wants for an estimate.

J. J. Styer,
CONCORDVILLE, PA.

ROOTED CARNATION CUTTINGS.

NOW READY.

Of the best old and new varieties now in
cultivation, in small or large quantities.
Send for estimate of wants or price list.

ISAAC LARKIN, Toughkenamon, Pa.

ROOTED CUTTINGS.

Price List ready January 10th. . . .

. . . Carnations and Geraniums ready now.

Correspondence Solicited. Inspection Invited.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

THE NEW WHITE CARNATION

GOV. RUSSELL

Will be Distributed Feb. 15, 1893.

Price of Rooted Cuttings: Per 1000, \$80; 500 at 1000 rate; per 100, \$10; 25 or less, \$2 per doz.

ORDERS WILL BE FILLED STRICTLY IN ROTATION.

FOR SALE BY

N. F. MCCARTHY & CO, 1 Music Hall Place, Boston, Mass.

C. J. PENNOCK, Kennett Square, Pa.

and E. H. HUNT, 79 Lake Street, Chicago.

SEE OUR PRICE LIST

in special carnation number of Jan. 19th, or address

EDW. SWAYNE, Carnationist,

. . . Kennett Square, Pa.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at
MADISON SQUARE and PHILADELPHIA.

Address H. E. CHITTY, Paterson, N. J.

ORDERS BOOKED NOW FOR MY SPECIALTIES FOR 1893.

New Jersey.—A scarlet Carnation hard

to beat.....\$12.00 per 100

Old Rose.—Old rose pink Carnation.

.....\$12.00 per 100

Nellie Bowden.—Pure bright yellow

Canna.....\$60.00 per 100

READY IN FEBRUARY.

Other varieties of Carnations, both old and new.

JOHN MCGOWAN, Orange, N. J.

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds,
including some of particular interest to growers of
seedlings. Correspondence and personal inspection
solicited.

C. J. PENNOCK,

The Pines, Kennett Square, Chester Co., Pa.

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

ORANGE BLOSSOM CARNATION.

One of the leading new varieties, and an im-
mense bloomer; received a Certificate of Merit in
1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per

100; \$25.00 per 1000.

MAY FLOWER, splendid variegated, \$2.50 per 100.
THE JENNINGS STRAIN OF PANSIES, trade packet,
2500 seeds, \$1.00. Fine, stocky plants, small, 60c.
per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,

Lock Box 254, SOUTHPORT, CONN.

CARNATIONS * AHEAD.

You want the best in the market! We have them, 16 Novelties of '93, and all the STANDARD
VARIETIES! Send for our complete Price List.

GEORGE HANCOCK, Grand Haven, Mich.

DON'T YOU BELIEVE IT!

That the Earth is like the Moon and has only one man in it.

WE ARE "IN IT."

If you don't believe it, just read what others say about us.

Our Begonias took First-Class Certificate of Merit at the meeting of the S. A. F. in Toronto (the only time they were ever exhibited). Our Seedlings are **Fine, Finer, Finest**. You can have your choice pot or field grown tubers.

Lose no time in placing your order with us as our stock is going fast.

ONLY 30,000 LEFT.

All grown from seed carefully hybridized by ourselves.

MEECH'S FINEST BEGONIAS.

SINGLE.
Mixed, extra \$ 5 00
Mixed, small tubers 4 00
Separate colors, rose, pink, yellow, white, flesh, salmon and crimson 7 00
Very choicest, in 12 distinct vars., \$2.50 a doz.

DOUBLE.
Mixed, extra 12 00
Mixed, small tubers 8 00
Separate colors, rose and pink 12 00
Separate colors, white, salmon, flesh, scarlet and crimson 15 00
Choicest select, in 12 distinct vars., \$3.50 a doz.
Try some small Tubers; make as fine plants as larger ones.

F. J. MEECH & SON,
CHARLEVOIX, MICH.

SAN FRANCISCO, CAL.
Messrs. F. J. Meech & Son, Charlevoix, Mich., GENTLEMEN:—Your Begonias were new here to a great extent, and I saw none to beat them: not even at the Golden Gate Park Conservatories, although they had thousands.

MISS MERIEL WARD, Floral Artist.

ALTOONA, PA., March 23, '92.
F. J. Meech & Son, GENTLEMEN:—"The tubers and seed of Begonias I bought from you done very well indeed. Not one tuber failed; and of the three or four pkts. of seed, I got 1,400 plants." Respectfully,
A. E. WOHLERT, Gardener to P. R. R. Co.

INVERKIP, Feb'y 22, '92.
F. J. Meech & Son, GENTLEMEN:—I have not much faith in European named varieties. Nine of the ten tubs grew well and made fine large plants, but none could in any way compare with seedlings raised from seed you sent me in '90; or even with some of the seedlings of '91 (I took the First-Class Certificate of Merit from the American Florists Society on these). The seedlings were very fine and quite made up to me for the disappointment in the named varieties. The seed I got from your three weeks ago came up very well.

Respectfully yours, FRED MITCHELL.

NEWPORT, KY.
Messrs. F. J. Meech & Son, GENTLEMEN:—"The Tuberous Begonia seed bought of you last year were very quick in germinating, came up fine and healthy. I had so many that I only reported about two-thirds of them, every one so treated bloomed. There was not a poor one in the lot."

MRS. H. H. CUMMINGS.

PAWTUCKET, R. I.
F. J. Meech & Son, Charlevoix, Mich., GENTLEMEN:—"On receipt of all the seeds, two pkts. from you, four pkts. from English growers, two pkts. from German growers. I sowed them in shallow boxes in the same kind of loam and on the same day. Now for the result: From the German and English seed I did not get one plant. Yours came up very thick, too thick to handle. On discovering my loss (with the foreign seed) I wrote to a western firm for two pkts. seed. The seed came accompanied by a letter apologizing for the small quantity of the seed as it was from the best English grower, and therefore expensive. From these I raised 45 or 50 plants (rather expensive). Now about the bloom. Yours came into bloom first, and I will say that were fine, just as good if not better than the few plants raised from the expensive seed. Yours very truly,
GEO. A. SAUNDELS.

Mention American Florist.

New Chrysanthemums.

40 VARIETIES INTRODUCED IN 1892.

Twelve Plants for One Dollar.

Now ready for delivery. Send for Catalogue.

M. B. LITTLE, Glens Falls, N. Y.
Mention American Florist.



DREER'S

MAMMOTH VERBENA SEED * New Crop Now Ready.

Choicest Mixed Varieties in the Brightest Colors, per Trade packet, 50 cents; 1/4 ounce, \$1.00, per ounce \$3.00

This strain is being continually improved in selecting only the largest flowers and brightest colors. Seedling plants have taken the place of cuttings, being more vigorous and free of disease.

Centaurea Candidissima, 1000 seeds, 50c.; oz., \$2.00.
Gymnocarpa, 1000 seeds, 50c.; oz. 50c.
Carnation Marguerite, mixed, trade pkt., 50c.; 1/4 oz., \$1.50. Fine for pot culture.
Canna, New Dwarf French, mixed, oz. 60c.; Mad. Crozy, oz. 75c. Saw row to bloom in spring.
Chrysanthemum, Prize strain, hand hybridized. Trade packet, 50c.
Cobea Scandens, oz. 50c.
Cymenem Giganteum, Prize mixed, per 100 seeds, \$100; 1000 seeds, \$5.00. Alba or Rubra, each, 100 seeds, \$1.25; 1000 seeds, \$10.00.

Begonia, Prize strain, single varieties, trade pkt., 50c.; double varieties, trade packet, \$1.00.
Gloxinia, Choicest, mixed, Crassifolia varieties, trade packet, 50c.; spotted and tigered, trade packet, 50c.
Musa Ensete, just harvested, 100 seeds, \$1.50.
Pansy, Dreer's Royal Exhibition, 1/4 oz., \$1.00; oz., \$4.00. To color, oz. \$1.00.
Petunia, Dreer's Double Fringed, mixed, 100 seeds, \$1.50; 20 cents careful hybridizing. Dreer's Single Large Flowering, trade packet, 50c.; 1/4 oz., \$2.50.
Smilax, oz. 50c.; lb., \$1.00.

Quarterly Trade List of Seeds and Plants ready early in January. Preliminary List of Flower Seeds will be mailed to any one in the trade on application.

HENRY A. DREER,

714 Chestnut Street, PHILADELPHIA, PA.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 00 per 1000 Rooted Cuttings, \$1 00 per 100; \$8 00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpasses those of last year.

J. L. DILLON, Bloomsburg, Pa.

Rooted Cuttings.

Carnations, New Scarlet, Emily
Pierson..... \$3 00
Leading varieties..... 1 25
Violets, Russian and Neapolitan.
Coleus and Alternantheras in var.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

A. N. PIERSON, Cromwell, Conn.

FOSTITE. A successful remedy against MILDEW and RUST on Plants. Price, per 25 pounds, \$2.00.

JOOSTEN'S MAGAZINE BELLOWS. The best Powder Distributor. Price, \$3.50. Sold by leading dealers, and by

C. H. JOOSTEN, 3 Coenties Slip, New York.

Rooted Cuttings

of Evergreens, Hardy Flowering Shrubs and Hardy Perennials (Achillea, Iberis, etc.) raised on contract for spring delivery. SEND LIST OF WANTS.

ISAAC C. ROGERS, MOORESTOWN, N. J.

SPECIAL BARGAIN IN Japanese Bulbs, Seeds, Shrubs, ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,
Nursery & Greenhouses: 303 to 312 Wayne St.,
SAN FRANCISCO, C. L.
Mention American Florist.

No Trees of 1st quality can ever be sent by mail. Mayhap you know it. By freight, prepaid if preferred, we ship safely 4, 5, or 6 ft. trees; 2-yr. Roses of rare excellence—everything! You actually pay less than for the puny stuff. 1,000 acres Nurseries, 20,000 acres Orchards. Exact information about trees and fruits. Stark Bros., Louisiana, Mo.
Mention American Florist.

NOVELTY FOR 1893! Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as other EXTRA CHOICE FLOWER SEEDS free on application.

FRED. ROEMER, Seed Grower, QUEDLINBURG, GERMANY

VERBENA SEED.

Mammoth Flowering. Extra.
This grand strain of Mammoth Verbena has given perfect satisfaction to my many customers in the trade, and is justly claimed to be the finest in cultivation. Florets measure an inch in diameter, to immense umbels of the finest colors. Liberal trade pkt. 25 cents; 3 pkts. 60 cents; 6 pkts. \$1.00.
JOHN F. RUPP, Shiremanstown, Pa.

Upright Steam Boiler.

Subscriber (page 570, issue of January 12) can use an upright steam boiler. I am at present using one myself and have set up and connected two upright steam boilers for other parties in the trade; for one I used the overhead piping system "without pit," the other "in pit." Piping under benches, using 2-inch pipe on down hill plan, and making vents with 3/4 pipe at highest points on flow pipes near boiler. These were brought into a position to discharge directly into the lead tub. The feed should be connected to return near the boiler or run independently to the bottom of the boiler. D.

Winter-Blooming Allamanda.

I have an Allamanda grandiflora in the warmest part of my glass house, which bloomed all of last summer. Since November 1 I watered the plant with very warm water regularly and to-day the plant is full of blooms and buds, and I think will continue to bloom all winter. Plant looks very healthy and grows vigorously; it is planted on a raised bench in ordinary soil. I never saw any of this class of plants blooming like this one.

Amniston, Ala. P. J. ULBRICHT.

[This variety is known as a remarkably free bloomer at all times.]

Black Fly.

We should like to have the following questions answered through your columns: We would like to know what will destroy the little black fly which causes white worms in the soil; also what will kill the worms. Have used lime water faithfully with no success, and tobacco smoke doesn't kill the fly. READER.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.
Mention American Florist.

Association "Flora"

BOSKOPF, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
H. P. ROSES, for forcing, " 9.00

In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohau, Merville de Lyon, Perle des Blanchies (Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiraeas, etc. We also have Palms, Dracenas, Araucarias and Bay Trees at our nurseries in Holland Catalogue on application
P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.

CANNAS
CHRYSANTHEMUMS

The best only. Seed of either, 25 cts. per packet. Circulars free.

T. H. SPAULDING, Orange, N. J.

This Noblest of All Reeds,

"Arundo
Donax,"

with its graceful tropical foliage, is the hardiest and most useful of the bamboo-like plants, and is particularly beautiful and effective when planted in an isolated position on the lawn or on the margin of a lake or stream. Last year the canes of this plant, with us, attained the

Height of 18 Feet.

Clumps, \$3.00 per doz.

" 20.00 " 100.

ANDORRA
NURSERIES,

WM. WARNER HARPER, MANAGER.

Chestnut Hill, Philadelphia, Pa.

Mention American Florist.

Adiantum Capillus Veneris,

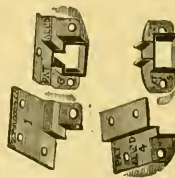
The coming Fern for florists. For reasons why see AM. FLORIST, issue of September 1st, page 119.

Splendid young stock, 2 and 2 1/2-inch pots, now in prime condition to ship. Price \$8.00 per 100.

NEPHROLEPIS EXALTATA. This is one of the most useful ferns grown; it stands the sun perfectly, making it one of the most desirable plants for Vases, Window Gardens, etc. Ordinary grown plants in 5 inch pots the fronds reach a length of 24 to 36 inches. We use plants grown in 8-inch pots for decorative purposes and find that they will stand more handling and bill up much better than most of the palms used for this purpose. Also desirable for cutting. Price, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100; 5-in. pots, \$15 per 100.

JOHN IRVINE CO.,

• • • Bay City, Mich.



GARDENERS HOT-BED SASH.

INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD
WORK OF ALL KINDS.

Write for prices.

THE PEIRCE & COLEMAN CO.,
Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.



TRY DREER'S
GARDEN SEEDS

Plants Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly, mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

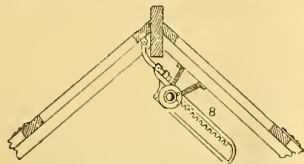
P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

SEE WHAT THE FLORISTS SAY ABOUT The "New Departure."



DARIEN, N. V., Nov. 18, 1892.

J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more Order Sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."
Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,

HARRISON & BURR.

A FEW MORE LEFT OF THE SAME SORT.

Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,
EVANSVILLE, IND.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send us 10 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

W. E. SMITH,

Successor to SMITH & SMITH,
Hardin County, KENTON, OHIO.

YOU CAN SAVE MONEY BY PURCHASING AND GLASS BY USING Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.
Mention American Florist.

PLANT BED CLOTH. CHEAP SUBSTITUTE FOR GLASS ON Hot- beds, Cold Frames, etc. Three grades. Light, Medium, Heavy.



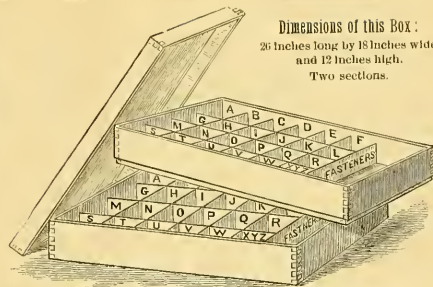
Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from frost. Promotes, hurries, vigorous growth and keeps beds warm; will not shrink or mildew. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples apply

NATIONAL WATERPROOF FIBRE CO.,
50 South Street, NEW YORK.
Agents Wanted.

STOTT'S DOUBLE SPRAYER



Read Advertisement in Next Week's Issue.



DIMENSIONS OF THIS BOX:

26 inches long by 18 inches wide
and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1 1/2 in. and 2 in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

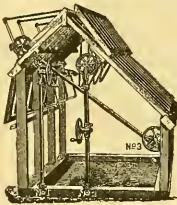
N. F. MCCARTHY, Address 13 Green St.,
Treas. & Mangr. Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

THE STANDARD Ventilating Machines



Received best awards

at
BUFFALO, N. Y.,
BOSTON, MASS.,
TORONTO, ONT.

Send for Catalogue
and prices.

E. HIPPARD,
Youngstown, O.

TOBACCO STEMS FOR FLORISTS.



Packed in bales.

PRICE:

200 lb. bale.....\$2.50

500 lb. bale.....\$5.00

CANE STAKES.

Fresh stock; per 1000,

7 to 10 TL. \$7.00.

WM. ELLIOTT & SONS,

SEEDSMEN,
54 & 56 Dey St., NEW YORK.

Mention American Florist.



78 JOHN ST., NEW YORK.
WELLS & GOUTAN GO., L'td.



Kills Mildew
and
Fungus Growth.

What does?
GRAPE DUST.
Sold by Seedsmen.

Mention the American Florist when
writing to advertisers on this page.

HERE WE ARE AGAIN.



Send on your orders
for Sash Bars and Ven-
tilating Sash. All
kinds on hand.

PROMPT ATTENTION.
Itemized Estimates
given, and cost of
freight guaran eed.

CORRESPONDENCE
SOLICITED.

Clear Cypress,

from bottom gutter up
is my specialty.

Lyman Felleim,
ERIE, PA.

Mention American Florist.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,

Wax Engraving, Photo-Engraving
Designing.

MANZ & CO.,

183 Monroe Street,
CHICAGO.

ENGRAVERS.

U. S. AND FOREIGN Trade Marks, Designs,
PATENTS Opinions, Searches, &c.,
promptly attended to. Send sketch or model for
free examination as to
patentability. All work
strictly confidential.

GEO. H. CHANDLEE,

Atlantic Building, WASHINGTON D.
Mention American Florist.

"Flowers and Poetry" and "Florists and Poets."

Glancing over the carnation number the opening remarks by Mr. Paul Hull in his humorous speech at the World's Fair banquet of the Chicago Florist Club in '91 are called forcibly to mind, and as his speech was not reported at the time it may not be out of place to make mention of it now.

He began as follows: "Gentlemen: One of my fondly cherished ideals has been crushed to earth; therefore blame me not if I am sad. Since I have been large enough to think for myself I have always associated flowers and poetry and florists and poets together in my mind, but, gentlemen, permit me to observe that you are the rummest looking lot of poets I have ever seen gathered together. Now, gentlemen, holding the opinions that I did regarding florists, when I heard that 'Uncle John' was coming to take charge of the Bureau of posies and poesy I naturally expected to see in his person the poet of the poets, and, gentlemen, imagine my feelings when 'Uncle John' walked in with those whiskers on his wishbone!" Mr. Hull's further remarks in this line were completely drowned out by the roars of laughter that greeted his several sallies, and for the moment he was kept busy dodging the biscuits and other missiles thrown at him by Mr. Thorpe.

Now, I wish to submit the carnation number of the AMERICAN FLORIST to Mr. Hull as evidence that his ideals were all right and that his change of base was premature. M. C.

Patents Recently Granted.

Hedge trimmer, J. L. Jackson, Columbus, Kans.; Mower and reaper cutting mechanism, L. King, South Sioux City, Neb.; Shipping and display box for seeds, S. R. Miller, Detroit, Mich.

THE BEST POTS.

THE CHEAPEST.

THE LOWEST FREIGHT RATES.

THE BEST OF PACKING.

THE LARGEST POTTERY IN THE STATE FOR MAKING STANDARD FLOWER POTS.

PRICE LIST OF POTS.

	Per 100		Per 100
2 1/2 inch	\$ 3.25	6 inch	\$ 2.20
3 1/2 "	3.50	7 "	3.50
4 "	4.00	8 "	4.00
5 "	5.00	9 "	5.00
6 "	7.25	10 "	10.00
8 "	9.00	11 "	15.00
10 "	15.00	12 "	20.00

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Pottery,

FORT EDWARD, N. Y.

FOR Florists, Nurserymen & Seedsmen

CEM STEEL WIND ENGINE
CEM STEEL TOWER

The CEM ENGINE, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no blizzards or trail-painted towers and practically no attention, yet is more durable than any other Wind Engine made. It is simple and more unique in finish. The CEM TOWER combines beauty, strength, durability, simplicity in its greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the **Halladay Windmills**, **Pumping and Geared Wind Mills**, the **Standard Yacows** and **U. S. Wind Wheel Wind Mills**, **Pumps**, **Tanks**, **Horse Hay Tools**, etc. No other company offers equal inducements. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO.
RATAVIA, ILL., U. S. A.



Mention the American Florist when writing to advertisers on this page.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER STANDARD FLOWER POTS.

Write for an illustrated catalogue and price list of Pots, Lawn Vases, Hanging Baskets, Bud Pots, etc.

ADDRESS PITTSBURGH CLAY MF'G CO., New Brighton, Pa.

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINERES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

MAIL LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

'OHN G. ESLER, Sae'y F. H. A., Saddle River, N. J.
Mention American Florist.

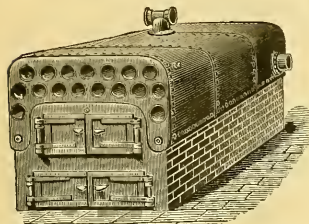
Please mention the American Florist every time you write any of the advertisers on this page.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

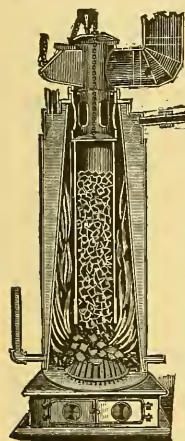
THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.**FRANK DAN BLISH, Att'y,**

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS.

CHICAGO.**THE WILKS HEATER,****FOR HEATING****GREENHOUSES, STORES, DWELLINGS, ETC.**Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**

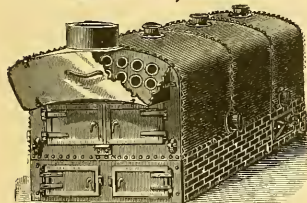
SEND FOR CATALOGUE.

KROESCHELL BROS.

IMPROVED

Greenhouse x Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, sheet, steel, iron, brass, sheets and heads of steel, water space all around (front, sides and back). Write for information.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book of 166 pages. Send \$3.50 for it, to

HORACE McFARLAND, Harrisburg, Pa.

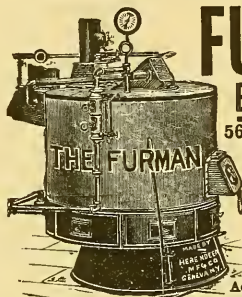
Mention American Florist.

THE "LOGKLAND"
Sash Bars * * ***ARE ALWAYS SATISFACTORY.**

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.The finest **CLEAR CYPRESS** used.

Write for circulars and estimates. . . .

LOGKLAND LUMBER CO.**Lockland, O.****FURMAN BOILERS****Economical — Substantial — Safe.****56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.****Modern Hot-Water Heating**These Boilers have a high reputation for Stanchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free. Address **HERENDSEN MFG. CO., 26 Vine Street, GENEVA, N. Y.****Do You Want**
A RELIABLE
SUPPLY OF
WATERConservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
All of this can be accomplished by using the Improved**RIDER**
OR
ERICSSON HOT-AIR PUMPING ENGINE

Catalogue with full particulars, sent on application.

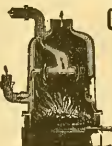
DE LAMATER IRON WORKS, 21 CORTLANDT ST., NEW YORK, N. Y.
Mention American Florist.**ERICSSON****D. H. ROBERTS,**
159 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASSfor **ROSE HOUSES, CONSERVATORIES, Etc., Etc.**

Our Glass received the Highest Award at the Boston Convention of the S. A. F.

FIRST-CLASS CERTIFICATE OF MERIT.**PERFECT DRAINAGE****BENCH TILE •**

Used by all the leading Growers and Horticultural Builders.

For testimonials, circulars, etc., address

W. P. WIGHT,**UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY****GREENHOUSE HEATING**

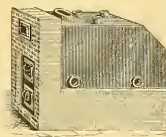
AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N. Y.

Send for Catalogue.

**GREEN-HOUSE HEATING.****MYERS & CO.**

1518 & 1520 S. 9th St., PHILADELPHIA.

Send for catalogue and price list

Index to Advertisers.

Abel C C & Co	635	McFarland J H	643
Amfing Bros	641	McFarland J H Co	641
Andorra Nurseries	640	McGowan John	637
Bailer F A	641	Mann J & Co	641
Bancroft Joseph	628	Marschuetz & Co	632
Bay State Hdy Co	641	May John N	638
Bayweather J W	632	May L L & Co	634
Bayliss Henry W	631	Meech F J & Son	629
Benett Geo E	628	Michel Plant & Bulb Co	628
Bergner H H & Co	638	Millard Bros	635
Bonsall Jos E & Son	632	Mollett G J	635
Boston Letter Co	641	Montinger Jno	641
Brace L B	639	Moore Samuel P	640
Brauer & Richter	626	Moore Frank L	631
Brauer & Rayner	626	Myers & Co	633
Burpee W Alice & Co	635	Nanz & Neuner	641
Burrow J G	639	National Fibre Co	641
Barton John	634	National Plant Co	631
Carman R W	628	Niles Centre Floral Co	623
Carmony J D	641	Olson M	633
Chandler Geo F	641	Owenkerk P F	640
Chitty H E	632	Peck & Sutherland	635
Connelly John J	632	Pelroy & Coleman Co	640
Corrigan T J & Co	632	Pennock C J	637
Crawford M	630	Pennock F M	636
Devine's Boiler Wks	642	Pennock Sam I S	631
De Lander Iron Wks	642	Peterson A N	628
Dillon J A	629	Peterson F R Co	625
Preer H L	635	Pilsbury J L	642
635 636 638 629 640		Pittsburg Clay Mfg Co	642
Richard Theo	635	Randall A L	639
Edwards W L	639	Reard Joseph	635
Elliot J Wilkinson	639	Rimband Benj	635
Elliott W H	632	Roberts P H	643
Elliott Wm & Son	641	Rosine Thos	632
Ellison Wm	632	Roemer Fred	639
Faust H G & Co	636	Rogers Nurseries	639
Felthelm Lyman C	641	Roller A & Sons	632
Feld S B	639	Rupp John F	639
Gardner J & Co	639	Russell Governor	637
Gibson J C	638	Russell P J	632
Gonzalez & Co	629	Salter Bros	631
Hall Asa B	639	Sander & Co	638
Hammond Benj	641	Schofield D C & Co	642
Hanecek Geo	637	Schulz Jacob	641
Hart James	637	Schulz John A	641
Hart Michael A	633	Selbre P & Sons	649
Hartford H E	632	Shebire W R	637
Helot Jos	630	Sheridan W F	633
Herendeen Mfg Co	643	Siebrecht & Wadley	638
Herr Albert M	635	Sipke Doppel & Co	642
Hess A H & Co	642	Sitaulous warts	639
Hilfinger Bros	642	Smith C A Floral Co	633
Hill E G & Co	641	Smith W E	641
Hopland E	641	Spoonding H L	640
Hutches & Co	644	Spooner Wm H	631
Hucker H M Co	642	Stark Bros	639
Horan Edw C	633	Starr Chas T	637
Horan James	636	Steffens N	644
Hulsebosch Bros	631	Stots Garden Imp Co	641
Hunt E H	632	Stryer J J	637
Hunt M A	631	Sunderbruch H L	632
Hunter & Purdy	638	Swayne Edw	631
Irvine John Co	640	Swayne Wm	637
Jeffords J E & Co	642	Tricker Wm	636
Jennings E B	637	U S Wind Knit Co	642
Joosten C H	639	Pump Co	642
Kaufmann Ernst & Co	639	Vaughan J C	638
Kennels Bros	635	Washburn Andrew	636
Knapp Oscar & Co	635	Waterbury Rubber Co	644
Koffman E	628	Weeber & Son	635
Kroeschell Bros	645	Weich Bros	633
Kuelen C A	632	Wells & Conant Co	641
Larkin Isaac	637	Widholm Pat Co	642
La Roche & Stahl	639	Wight W P	644
Little M B	639	Wilkes Mfg Co	645
Lockland Lumber	645	Winters Geo	639
Lombard R T	637	Wiscon	Ex 644
Long Dan T B	632	Wood P	639
McGrath Alex	637	Zirger	639
McCarthy N F & Co	642		

WANTED

One dozen good plants of
Cyperus Alternifolius.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

CYPERUS
GREENHOUSE
SASH
MATERIAL
HOTBED
AND
VENTILATING
SASH
CLEAR
CYPERUS
SASH
BARS
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON, AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERRECTED COMPLETE, OR THE STRUCTURE, IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. — () IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. —

HITCHINGS & CO., 233 Mercer Street, NEW YORK.



SPINNAKER GRIP
ARMORED
SPRING STEEL GALVANIZED

Pat. 1882, '85, '86, '88, '90, '91. For WATER, AIR, STEAM, ACID, OILS, LIQUORS, GAS, SUCTION, And for any and every purpose for which a hose can be applied.

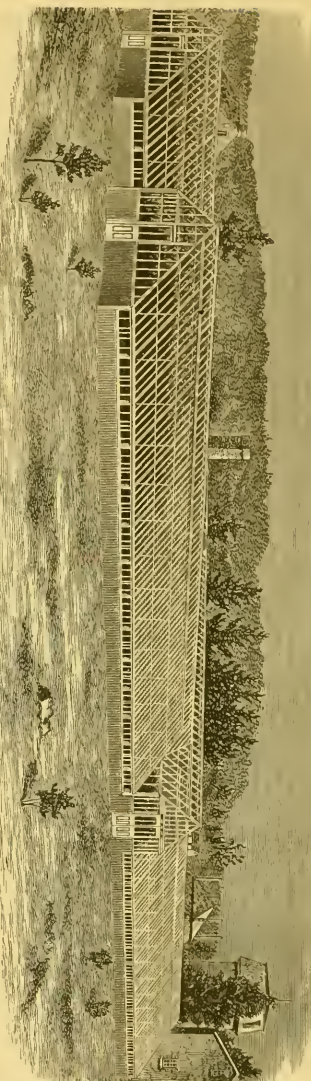
Sizes, 1/4-inch to 42 inches diameter. The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mfrs and Owners of all the Spinnaker Grip Armored Hose Patents, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

Mention American Florist.

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST.
NEW YORK.
Mention American Florist.

HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VIII.

CHICAGO AND NEW YORK, FEBRUARY 2, 1893.

No. 244

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, St. Paul, Minn., secretary; M. A. HUNT, New Haven, Conn., treasurer. The ninth annual meeting at St. Louis, Mo., August 9-12, 1893.

CONTENTS.

Chrysanthemum shows	645
Japanese cut flowers	646
Fern notes	646
Progress of palmate leaved primula (illus)	647
World's Fair notes	648
Primula leaf of intermediate form (illus)	648
Carnations—seasonable hints	648
—Marketing cut flowers	648
—Carnation mist	649
Carnation disease	649
Miscellaneous seasonable hints	649
Pteris serrulata Eblenii (illus)	650
New York	651
Boston	651
Philadelphia	652
Chicago	653
New Orleans	653
Buffalo	653
Montreal	653
Toronto	653
San Francisco	653
News notes	654
The seed trade	658
Catalogues received	658
Mushrooms	658
Baltimore	660
Violet disease	662
Foreign notes	662
Mushrooms at the World's Fair	664
Overhead system in steam heating	666

PRINT your spring trade list in the columns of the AMERICAN FLORIST. We will print your list in a page space and circulate it to the whole trade for \$42. The postage alone on a list mailed by you to the same number of addresses would be \$60, to say nothing of the cost of printing, envelopes and labor.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

IF YOU KNOW of any changes from our directory list of last year please notify us of same at once if you have not already done so. The correction sheet will be closed at an early date.

IN WRITING our advertisers please use your printed letter head or enclose your business card.

Chrysanthemum Shows.

The question of directing properly a chrysanthemum show so that it shall be a success in all its features is a problem that has only been partially solved on this side of the Atlantic. I have read with great interest what has appeared in our professional papers, and have learned much from what has been written. Let me say right now that the educational work wrought by the holding of chrysanthemum shows is a tremendous factor in the growth and development of a love for flowers and floriculture among the people at large. The excellence of the work done, its far reaching influence upon the minds and thought of the people is not fully understood by the florists at large; else, instead of a few in each city or district having to do all the work, and furnish the enthusiasm in addition, there would be hearty co-operation and a willingness to help that is sadly lacking in most of the cities where shows are held.

The people need instruction; they need to have set before them the beautiful things in Queen Flora's kingdom. What more fitting object lesson is there than a fine autumnal show? Then another feature of the educational process is found in the notices and literature produced in the daily press, often, I admit, of an execrable character, but it is undeniable that a wondrous flood of information is disseminated and interest is awakened by the press, all in consequence of these shows being held. Another point about the press, or rather the reporters, it is largely the fault of the florists themselves that better and more accurate accounts do not appear. Often have I witnessed the important reporter as he went from one florist to another, beseeching for a little attention and information that he might write up in a sensible manner the plants and flowers exhibited, only to be met by excuses and a plea of inability to give the necessary time. A show of flowers can never be made a success financially without the co-operation of the daily press; a society that recognizes this fact, always tries to treat the representatives of the papers with the utmost courtesy and help. The influence of an exhibition being so potent for good, and so wide spread in its influence, all members of the profession should help carry on the good work so auspiciously begun. There should not be the indifference and apathy that often prevails, for every florist is benefitted in measure. Some florists are even hostile and seek to neutralize the work and influence of the shows on the very flimsy plea that chrysanthemums are an injury to other branches of the business. Even admitting this, what other flower possesses the decorative and exhibitional character of the chrysanthemums, so necessary for the initial work so happily begun? It will open the way for the Queen of Flowers,

the Divine Flower, and the rare and beautiful orchid to exhibit their charms to greater numbers of people possessed of awakened sense of these fine qualities of form and color. If the exhibitions given were a universal failure financially—which happily is not the case—my deep conviction is it would even pay large interest for the profession to make up any ordinary deficit on account of the salutary and well defined impress it makes on the masses.

There is one class of florists who perhaps are more directly benefitted than any other. I refer to the catalogue men. Hundreds of times have I been asked "can I get this, or that" referring to some particular variety of carnation, rose or chrysanthemum from Dingee, Storrs & Harrison, Vaughan, Vick, Henderson, or other noted catalogue men. Some of this class support the shows handsomely, but there should be a more general support from them, a generous, and willing co-operation, for they are unquestionably the most directly benefitted by the shows. It is not my purpose to discriminate against any class of our profession, but I wish to set before the small grower, the retailer, the wholesale and the catalogue man each in turn, the need for hearty co-operation in maintaining and rendering more useful the shows already established. One word more on the educational feature and it is this: it broadens the mind, and enlarges the vision of those directly engaged in making and maintaining the shows. In other words the reflex influence is as potent for good on the florist as upon the non-professional.

The history of the exhibitions given at Indianapolis may throw light upon some points that seem obscure. Indianapolis, with a population of one hundred and twenty-five thousand, has supported and sustained our annual exhibitions better by far, than any other city on the continent, as the yearly financial statements will show. It was with grave misgivings that the first exhibition was determined upon; after much thought and discussion; a policy or line of action was decided upon which has in measure been adhered to, during the entire series of exhibitions. In addition to a moderately liberal premium list, the decorations of the hall, so as to make a fit setting for the plants and flowers have been maintained with a liberal advance over each previous year, until it is a well attested fact that Tomlinson Hall has been the best decorated exhibition room in the country, barring Madison Square Garden. Another feature has been maintained, and that is a good musical programme; each year music has been furnished by a good orchestra, and Belstedt the cornetist was an additional treat offered the public who attended in 1891. Special premiums have been donated by firms and individuals in a moderately liberal manner. It is one of the unaccount-

able things that whilst the influence of the show has permeated the whole state, a large attendance being present from all parts of the commonwealth, and the benefits wide spread and beneficial, yet a mere handful have to carry the work forward and bear the burden. The average membership of the society is fifty, with less than one-half taking active part in the proceedings and work of the society. We ought to have at least fifty active working members. If some one will tell us how to enlist the interest and services of a larger portion of the profession in the state they would certainly confer a favor. Some we fear, allow petty jealousies to interfere, imagining that this one, or that one, is getting too much advertising and notoriety out of the work of the society, the real trouble is apathy and indifference. I suppose however that the same trouble exists all over the country. I append an abstract of the financial statement of each exhibition for the last six years.

The receipts include the annual dues of members and also expenses for Society proper. (About \$100 per annum from dues).

1887.—Receipts.....	\$1,249.54
Expenses.....	1,099.89
1888.—Receipts.....	\$1,443.24
Expenses.....	1,597.57
1889.—Receipts.....	\$1,775.13
Expenses.....	1,789.99
1890.—Receipts.....	\$2,117.19
Expenses.....	2,067.91
1891.—Receipts.....	\$2,974.71
Expenses.....	2,844.22
1892.—Receipts.....	\$3,343.95
Expenses.....	3,496.86

The operations show a balance in treasury of \$56.25. Not a very encouraging view if considered from a purely financial standpoint. It is gratifying on the other hand to know that immense good has been wrought by the efforts of the Society in an educational way; all concede this. The work of the Society and the success achieved, is due in large measure to our energetic secretary, Mr. Wm. Bertermar, who has so interwoven himself into the exhibitions, that to him has fallen the greater part of the planning and even the manipulation of the details. It will be noted that the receipts and expenditures have kept pace from year to year. Of course there has been an increased attendance; on the other side larger premiums, more elaborate decorations, and greater advertising bills have absorbed the increased gate receipts. Admission 25 cents in the day time, and 50 cents at night have become established rates, giving, the management thinks, the best results.

The fact that after six years of continuous work we have only the pittance of \$56.25 in our treasury is disheartening to those who have hoped for larger financial results. The result of so many years of toil and labor, with such meagre returns to our treasury has resulted in a call by the president, Mr. Fred Dörner, for a conference to be held on the 12th inst. to take the whole question under consideration, and decide as to whether to continue on the present lines, or to adopt some other method or methods. Some of the members think the decorations unnecessary, and too expensive, others favor cutting down the expense for music; some think the premiums too large, especially for seedlings; a few favor discontinuing the show for a year or two. The meeting to be held will settle the question of continuing the show, and the supposition is if the exhibition is continued, that radical changes will be made. Whatever the result, one thing is plain; the fact of an annual exhibition being given at Indian-

apolis has become fixed in the minds of the people of the state and they look forward to the show and make arrangements accordingly; this has been a factor accounting in measure at least, for the increased attendance each year. Aside from the financial aspect the shows held at Indianapolis present a bright page in our floricultural history, and in elevating our profession in the thought and mind of the people.

A FEW IMPRESSIONS REGARDING SHOWS.

It is a mistake to make a flower exhibition subordinate to either music or other attractions. The majority of the people visit the show—primarily at least—to see the flowers. A good liberal premium list is necessary in order to have the foundation solid and right; the superstructure can then be either music, decorations or other attractions. Be sure to have the plants and cut flowers according to schedule.

A flower booth for the sale of cut blooms—and be sure the flowers are good—together with medium sized pot plants that can be conveniently carried in the hand, these will sell. The sales at the last Indianapolis show aggregated \$450 from this source.

Different and distinct arrangement of flowers and plants each year, should be made, so that the show will not be open to the criticism "oh it is just the same old thing over again." Change the schedule, and introduce new styles and groups of chrysanthemums.

Where groups of very large plants are formed, plants grown in 10, 12, or 14-inch pots say—how much better they would look if they were edged with either small bushy plants of chrysanthemums or else with ferns or small palms, so as to hide the pots from view. An arrangement of this kind greatly enhances the beauty of a group of large plants.

A member of a large London, England, firm told the writer that his firm spent annually four to five thousand pounds each year in making exhibits and displaying their plants and cut bloom at the different shows, and he thought the money well invested; in fact couldn't do otherwise if they maintained their standing and prestige. The above refers to the shows held throughout the year and not particularly to chrysanthemums. Here is an indicator pointing to us in America.

HOOSIER.

Japanese Cut Flowers.

BY HENRY IZAWA.

[Read before the Chicago Florist Club January 26.]

After being in this country several years and seeing the methods of flower growing and the use of flowers here I have failed to find anything at all like the Japanese ways of using cut flowers in winter. Greenhouses are used much in the same way as they are here, but not many flowers except roses and camellias are grown under glass.

The Japanese flowers most used for decorations at New Years (which is celebrated much as it is here) are blossoms of such trees and shrubs as cherry, peach, apricot, camellia, rhododendron, azalea, cyprus, viburnum, magnolia, etc. As the seasons in Japan are about the same as in America it seems strange to talk of flowering these plants at Christmas, but it is a very simple process which I will proceed to explain.

From about December 5th to 10th branches of these trees are cut off with a sharp knife, care being taken in selecting

those well set with flower buds. These are cut from three to four feet long. The end of each branch is carefully bound with water moss as soon as cut to preserve it from the air. They are then tied in bundles of four or five, with strings made of rice straw; then put in water about seven or eight inches deep, in wooden troughs, arranged on the floor and shelves round a room, laying one bundle against another, so as to take up as little space as possible.

These rooms are underground chambers, generally about ten feet wide and twenty feet long, with brick or wooden walls and arched roof covered with a thick layer of soil. They are sometimes made singly, or several together, communicating with one another. They vary in depth from ten to twenty feet. The door is the only opening to the chamber, as it is necessary to keep them quite dark. The chambers are heated by hot water pipes, and the cuttings are sprinkled three times during the day. The temperature is raised from the time the plants are put in from about 45° in three or four days to about 70°; in another week to 80° or 85°, and a week later to 90°. By this time the flowers will appear with all their natural beauty and fragrance, but rather smaller than when grown outside.

On New Years eve the whole crop is taken to the market and disposed of. They generally sell at about ten times the price of the flowers in their proper season, but the prices vary from year to year. Of course all flowers are not grown for New Years day, but this is the principal winter floral decoration.

In response to questions by members Mr. Izawa said that the chrysanthemum season in Japan opened in September and extended into December. The early and mid-season varieties are left out of doors the year round, but the late varieties had to be potted and taken into greenhouses when their flowering season approached. All pot plants are more or less disbudded, the usual practice being to leave from eight to twelve flowers on a plant, one flower to a shoot. Such plants in 7-inch pots sold there for about 25 cents each. The wages for gardeners range from 40 cents a day for the least skillful to \$1 a day for the best. He spoke of the various festivals throughout the year at which flowers were largely used, but for all of these except New Years outdoor flowers were abundant and no forcing was necessary. He also gave the Japanese names of a number of chrysanthemums and then gave the English translation. Among these translated names were "white water fall," "old man's beard," etc., most of the names being of this character, though in some instances flowers were named after individuals or places.

Fern Notes.

The use of small ferns for table and window decoration has wonderfully increased of late years, and while the comparatively low prices that prevail have doubtless had something to do with the increased volume of trade in this specialty, it must also be conceded that there is an increased taste for this class of decoration, and this taste has been fostered not only by the retail florists, but also by the manufacturers of fancy fern pans, the latter being found in a variety of styles and materials, silver pans being not uncommon. It should be remembered, however, that to secure a fairly good result from a fern pan, it



PROGRESS OF THE PALMATE LEAVED CHINESE PRIMULA FROM THE ORIGINAL FORM TO THE CURLED ITALIAN.

should be filled with sturdy, well-hardened stock, for soft or drawn plants cannot stand exposure to the dry atmosphere of a dwelling, and the deluded purchaser of a fern pan filled with such stock is very likely to return to the retailer in about a week, with the plaintive wail that his or her ferns are all dead.

In order to secure suitable plants for this purpose it is best to grow them in a

moderate temperature, for instance, from 55 to 60 degrees at night, and with as much ventilation during the day as the state of the weather will permit, bearing in mind that while the class of ferns generally used in the trade require an abundance of fresh air, yet the young fronds will not stand cold drafts, and at this season of the year watering should be done early in the day to prevent too

great an accumulation of moisture on the foliage during the night, for with adiantums especially this will result in damping off.

The size most used in small ferneries is strong plants in 3-inch pots, this being fully as large as the average fern pan will accommodate, and in some instances strong plants from 2-inch pots will be found preferable, from the fact that they will

not require the removal of so much soil from the roots in order to get them into a shallow pan. To economize space in growing ferns for such use it is advisable to pot off the seedlings into small pots, afterwards shifting them on into 3-inch pots in successive lots as they are needed, the expenditure of the time used in thus repotting being fully repaid in the better results attained by this method. And there is also a smaller percentage of seedlings lost by over-watering during the early stages of growth when they are potted in small pots.

Regarding varieties for trade use, the fashions do not change to any great extent, and *Adiantum cuneatum* remains at the head of the list of maidenhairs, though for extra fine work *A. Farleyense* is indispensable, a very attractive arrangement being made by placing a nice plant of *A. Farleyense* in a fancy basket and then arranging a few choice flowers through it. The *Pteris* family furnishes the greatest number of useful species and varieties for the trade grower, such reliable sorts as *P. cretica* and *P. serrulata* in their various forms, *P. tremula*, *P. argyrea* and a few others from this extensive genus forming a part of the stock of most growers. Of the newer *pteris* that are likely to be valuable trade ferns *P. cretica nobilis* and *P. serrulata densa* are worthy of note, for they can be readily reproduced from spores, and will make compact and salable plants in a short time. Pretty as *P. Victoria* is, it is somewhat doubtful whether it will take a prominent place among useful ferns, from the fact that its handsomest fronds are fertile ones, and when the plant throws up these fertile fronds it is too tall for small ferneries. And although *P. Victoria* has clearer variegation than *P. cretica albo-inata* has, yet it is also much more brittle than the latter and less hardy.

Among the coarser leaved species that are available for florists' use, *Pteris palmata*, *Nephrodium Sieboldii*, *N. opaca*, and *N. aristatum* var. *continua* in favor, while *Oncium Japonicum* and *Davallia tenuifolia stricta* also hold their own, the *Oncium* being used to a greater or less extent for cut fronds with good results, a particularly happy arrangement having been made by some expert decorators by carelessly strewn a dinner table with cut fronds of the *Oncium*, these being so light and elegant that a charming effect has thus been secured.

W. H. TAPLIN.

World's Fair Notes.

The primulas are now past their best but still make a good show. The best of them have been taken from the greenhouses and displayed on tables arranged under the dome of the Horticultural Building, with the name of the exhibitor on each collection. Aside from the curled Italians, which must be considered as a type by itself, the strains from English growers are undoubtedly the best, and Cannell may be fairly considered at the front. Among American growers Dreer, Henderson, Gardiner and Kupp all show good strains. The German growers show strains notable for odd markings, but the flowers are small and the colors are not such as would appeal to the grower of plants for sale.

The tree ferns are starting nicely and will make a beautiful show. The work on the mound under the dome is still incomplete, much of the stuff to be used there being held in the greenhouses on account of the better conditions that can

there be maintained for bringing the plants on into exhibition shape. And the displays from the states of New York and New Jersey which have been assigned space on or around the mound have not yet arrived.

North of the dome the miniature Japanese garden is being arranged. Among the features is a rustic bridge and also a Japanese well. Most of the plants have already arrived and will soon be placed in position. The miniature trained trees and shrubs were most elaborately packed for the long journey. The boxes were made to hold the plants in an upright position and were covered with a glass roof protected by woven wire netting. Each one resembled a miniature greenhouse. This garden promises to be a very interesting feature.

A batch of *platanus* from New South Wales are of tremendous size. The smallest is larger than a bushel basket and it is estimated that no one is less than 100 years old.

In the greenhouses the cyclamens are coming on in good shape and the cinerarias are also looking well. The cyclamens are beginning to bloom, but will not be at their best for several weeks yet.

Primula Leaf of Intermediate Form.

The leaf illustrated herewith is what may be called the progressive form, intermediate between the palmate and the fern-leaved form. It is seen on a variety called "The Queen," one of the newest sorts, introduced by an English firm. The flowers are large, borne in close clusters; the foliage is fleshy, tender green in color, with short footstalks. It is an extremely handsome pot plant, and should be very useful for market purposes. It was later in blooming than the other varieties at the World's Fair.



AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; WM. SWAYNE, Kennett Square, Pa., vice-president; C. W. WARD, East Moriches, N. Y., treasurer; G. J. PENNOCK, Rountree Square, Pa., secretary. The second annual meeting at Pittsburg, Pa., February 21, 1903.

Seasonable Hints.

We have alluded casually to the matter of ventilation, but not in particular. Temperature, however, must be taken into consideration. We are passing through a very severe winter right here at home, and it may not be amiss to mention something of our experience. The mercury has not risen above the freezing point since January 3rd, and not higher than 18° at night. The lowest temperatures recorded during this period to the present are as follows: January 11th, 0°; 13th, 3°; 14th, 0°; 16th, 6° below zero; 17th, 20° below; 18th, 18° below; 19th, 7° above; 21st, 11° below, and 22d, 7° below—with corresponding temperatures during the day, ranging from 10° to 24°. These figures are unusually low for this section, but our heating apparatus has been fully equal to the emergency. We run our houses up to 58° to 60° at night, and they have stood generally at 54° to 56° in the morning.

The fires are coaled up for the last time at 9 to 10 o'clock p. m., and are not again seen to till 7 o'clock the next morning, when if it is not cloudy, they are shut off by opening the top door, but not banked. Our houses lie northwest and southeast. The sun of a clear day strikes the southwest roofs immediately on rising, and the mercury soon runs up and may reach 80° by eleven o'clock, and seldom goes above that. Shortly after noon the temperature will begin to fall, and will reach 60° by about 4 p. m., when the fires are again started. We do not ventilate during such weather, considering the cold air admitted injurious, and would rather the houses would run up to 90° than do so. But we keep up a full supply of moisture by wetting the walks, under the benches, and even syringing the plants unless full of expanded flowers. On cloudy days we do not care to have them run up over 60° to 65°. As the season advances and the sun gains power we shall give more ventilation, but using great caution in the matter unless the mercury out doors is considerably above freezing. Of course one must be governed entirely by his situation and surroundings. What we have to say in these short articles relates mainly to our own experience and practice. Others may reasonably differ with us in opinion, and we have no fault to find with any one who does. W. R. SHELMIERE.

Avondale, Pa.

Marketing Cut Carnation Flowers.

Carnation growers generally realize, I think, that the present plan of selling their flowers is not altogether fair and business-like. Roses and chrysanthemums are sold on their merits, choicer varieties bringing frequently ten times as much as the common, but not so carnations. Here is a little scene which happened recently at a Washington florists' store illustrating my point.

Uninitiated customer: "What's roses worth?"

Salesman, pointing to various jars: "Two dollars, and two and a half, three dollars a dozen; these are Beauties a dollar a piece."

"Oh! What is that little bunch of violets?"

"A dollar."

"Well, gimme three pinks." He knew pinks were pinks, and safe ground.

In most markets, as far as the ordinary grower is concerned, there are only two kinds of carnations, "long" and "short." Color, rarity, productiveness of a variety, and size and perfection of flower are not sufficiently considered. This condition of the trade is of course gradually improving with the growing appreciation of the newer and better grown carnations. "Fancy" carnations are quoted in our best markets at increased prices, and the finer seedlings bring still more. Certain attractive varieties are difficult to grow, and as prices now rule, the grower can rarely get cost out of them. I think this fault lies principally with the growers, who should grade their flowers more closely, and insist on having better prices for the larger, scarcer and more beautiful sorts.

Probably most growers err in growing too many varieties for the market. One good variety of each color grown will enable him to furnish a larger and more continuous supply of high grade flowers. Of course we must try the new and promising seedlings and novelties in a small way that we be not left in the rear



PROGRESSIVE TYPE OF PRIMULA, INTERMEDIATE BETWEEN THE PALMATE AND FERN-LEAVED FORMS.

of the procession. I should like to see the opinions of growers, and of retail and wholesale florists upon these points: "Is it desirable and feasible to market carnations as named varieties;" and, "Should growers separate their finest flowers for sale at a higher price; or market all long stemmed ones together?" It would seem to be to the advantage of all who grow and sell carnations that higher prices be realized for high grade flowers.

F. M. PENNOCK.

Carnation Rust.

Where are our troubles to end as florists—fight all the time—eternal vigilance night and day?

I did not know rust, and thought I was rust-proof, and it seemed like a fairy tale to read of it in your excellent journal. We had no rust until this past summer. Last spring I bought rooted cuttings from five different florists (it's a good thing I don't know which one gave me the rust), and planted out about ten thousand. In summer rust developed, and I wondered what ailed my carnations. One batch of them got it badly, while the others a little way distant had none. I planted them inside, keeping them separated; the rust disappeared, and the plants have done fairly well. I would rather have given one hundred dollars than had that disease brought

into my place. Fortunately I can get stock enough off my Silver Spray and Grace Wilder, which have no rust; I would not take or sell any cuttings from the rusty ones. Now I want some of the new sorts, but am afraid to buy, having been bitten last season. Every florist who does not sell clean stock ought to be boycotted; it hurts the trade, and robs the grower of confidence in his fellow florists. I hope those who offer carnations will be sure to advertise them as free from rust and all diseases. The one who does this will in the long run make the most money, and have the confidence and good will of his fellows in the craft.

Westfield, N. J.

W. B. W.

Carnation Disease.

MR. EDITOR:—The following letter was received yesterday. I send for publication in the columns of FLORIST to get the desired reply:

"Some carnations which I received from out west the spring of '91, developed a peculiar dark smutty stuff on the leaves. I have an idea it is what is called rust, though it hardly suggests rust to look at it. It comes on the upper surface of the leaf—first like a blister, then it opens and this black dust appears and if the leaf or plant is touched the black dust scatters. What I don't understand is that plants which were in pots

all summer, are entirely clear of it, whereas those which were planted and lifted in the regular way, have it now. Can you explain why this is?"

I must confess that I cannot. If this should catch the eye of those who have made this disease a study, I wish they would explain the matter through your columns, as no doubt others would like to know the reasons for such a difference, especially when we are led to believe that out door cultivation is more natural to the carnation than under glass. That's the point! L.

CARNATION MARIA.—Mr. R. E. Shuphelt calls our attention to the fact that the color of this new carnation is salmon pink, and that it does not resemble Garfield as stated in the list of registered varieties in our carnation number.

IN MR. LONSDALE's article on raising seedling carnations in our carnation number the types made him say "Mother Earth is the real material parent," when it should have read, "The real maternal parent."

Miscellaneous Seasonable Hints.

These notes—which, if they are found interesting and useful to a certain class of readers, will be continued—are not intended for the specialist who grows in large quantities a few of the leading flowers; nor are they meant for the wholesale grower and shipper. They are intended as a seasonable reminder to the florist who grows a general stock for his own retail trade, a class of florist more numerous among your subscribers than all others combined, and such a one is the writer. Due allowance in some operations must be made for difference of latitude. An error from lack of knowledge may call forth a friendly criticism occasionally, if so, all the better, for then we shall reach the essence of correctness.

SEEDS. Those who have not sown the following seeds should do so at once: *Lobelia speciosa*, *gracilis* and *Crystal Palace Gem*, *Centaurea gymnocarpa* (don't sow *Centaurea candida* now; it is no use sown later than October), *Pyrethrum aureum* (the "golden feather"), *mignonette*—for spring sales in pots.

CYCLAMENS.—To get very large plants in bloom in December and the holidays, seed should have been sown in September and October, but if sown now fine plants can be raised by the following New Year. I sowed last year as late as March and have had nice plants in 5-inch pots in fine flower this past month. But sow at once. *Cyclamen persicum grandiflorum* is the best habit and most useful for general purposes.

CANNAS.—If sown at once they will be in flower by end of May or 1st of June, our bedding out time. Soak the seeds 24 hours in hot water and then holding a seed firmly with a pair of pincers, with a strong, sharp knife slice off a piece of the hard covering of the seed. I sow in flats with one inch of soil and one inch of sand. Place the flat on the hot water pipes and about every seed will grow. Mme. Crozy is said to come true from seed.

SMILAX.—If you intend to renew your smilax bed this summer, sow the seeds now.

VERBENAS have been so unsatisfactory from cuttings for several years past that I depend entirely on seedlings. The colors may not be as fine as named varieties,

but seedlings have one great advantage, they are sure to grow when planted out. If sown at once a nice cutting can be got from the plants in April.

CUTTINGS.—The cold weather of mid-winter necessitating hard firing makes the conditions for propagating the very best, and many things should now be in the sand. If you have a large demand for "vines" for baskets, vases, and veranda boxes, now is the time to get up a stock. I find we are propagating in quantity, German ivy (*Scneio*), vinca—the variegated and green, *Abutilon* vexillarium, *lophospermum*, *Solanum jasminoides* grandiflorum, *Othoua crassifolia*, sweet alyssum and *Lobelia speciosa* and gracilis. These lobelias make much finer plants than the seedlings.

The last batch of fuchsias should now go in. If much later than this, the warm weather comes on before they have made their growth and stunts them. The nearer you can keep the heat of the sand to 65° and the atmosphere at 50° the greater the success you will have. If you have a warmer corner where the bottom heat is 75° and top heat 60° that's the place for colons.

We are just now shifting all our geraniums from 2-inch to 3-inch pots and about April 1st they will be shifted into 4-inch pots. This may seem to some extravagant treatment, but we have to grow good plants. We get \$1.50 per dozen for them and it pays. If you are short of geranium stock let them grow till March 1st, then take off the tops and pot into 2-inch. They will make good bedding plants by selling time. If you don't want to propagate, pinch out the last joint and they will make fine bushy plants.

Look out for your azaleas that you imported last fall. If you want to sell them this spring keep the young growths constantly rubbed off. They rob the flower buds of strength and you will get no flowers.

Remember Easter is very early this year (April 2) and your Easter crop of *Bermuda* and longiflorum lilies will want to be hurried right along. They should be just about showing their flower buds now (January 30) and from now on will need a temperature of 60° at night with lots of light and continual fumigating. Far better to have a week or ten days to spare and be able to cool them off before selling.

Set one day in the week (every week) for bringing in your flats of tulips, hyacinths and narcissus. Call it tulip day, you won't forget it then and will have a continuous supply. As the season advances less heat is required to bring tulips into flower. For February about 60°, plenty of moisture and heavy shading will do them nicely, but don't put them on the pipes—they don't like that.

Buffalo, N. Y.

WM. SCOTT.

Pteris Serrulata Eblenii.

This variation of *Pteris serrulata* appears to be a distinct form, though bearing some resemblance to *P. serrulata* Applehyana. As will be noted from the illustration this plant is of very graceful habit, and the tips of the pinnae being much divided give it a tasseled appearance.

It will doubtless make a handsome specimen plant, and possibly may become a useful florist's fern, though the preference at the present time regarding ferns for trade use is rather in favor of varieties of shorter and more compact growth than the subject of these notes.

P. serrulata Eblenii certainly possesses

much beauty, and has fixed characteristics, for some fronds which the writer was privileged to examine the year before last presented precisely the same peculiar form that is so clearly indicated in the photograph, and while there is already a long list of named variations of *Pteris serrulata*, yet this new comer seems deserving of a name and a fair trial.

W. H. TAPLIN.

New York.

A special meeting of the Florists' Club was held on the evening of January 23, for the purpose of appointing standing committees for the ensuing year. There was more genuine interest at this meeting than at any meeting the Club has ever held. President Manda, on appointing each committee gave them an interesting talk as to their duties and what was required of them.

It has been fully decided to hold monthly exhibitions of rare plants and flowers at the club rooms, also to introduce the Question Box at the regular meetings. The library committee are going to work immediately to secure books, periodicals, etc. The second "smoker" will take place on Saturday evening, February 4. It will be given by Mr. C. B. Weathered. Charlie hopes to see a big crowd there.

Invitations are out for Pitcher & Manda's big orchid show at their establishment at Short Hills, N. J., from January 24 to February 4, inclusive.

The wholesale cut flower trade continues very dull. The retailers seem to be fairly busy however, and prices of stock in general having experienced a severe drop the dissatisfaction and complaint so loudly expressed by the retailers a month ago has been transferred to the growers, who are now taking their innings at making the commission man's life unbearable.

Sure it is, that the perplexing problem of the regulation of prices of cut flowers in the large centers of trade is as far from solution as ever. Much is said and written about the ease with which this end has been accomplished in small places, where only a limited supply is produced and where the demand is local, and where the shipping trade has never exerted any influence upon the quantity and character of the stock grown, and there are ever ready pens that can tell us just how to regulate everything. But, put the most brilliant of these theorists into the swim here in New York, and he would presently find himself suffering from an aggravated attack of "where was I at?"

A noticeable condition in the rose trade is the rapidly increasing tendency to wide variations in price of the same variety, the price being dependent upon quality solely. There was a time when a bloom from a *Mermct* plant was a *Mermct*, and a bloom from a *Beauty* plant was a *Beauty*, without much regard as to the quality. Then gradually customers begin to get critical, and as the general supply increased the matter of grade came to the front rapidly, until now when the variation in price between the poorer grades of stock and the choicest selection is almost incredible, it being a fact that of a given variety one dozen selected specimens will wholesale for as much as, or more than a hundred of the average will bring.

Comparing present wholesale rates with those of a year ago, this feature in the price lists is very remarkable. While

the maximum prices compare well with any past season the minimum prices are away down. The truth of the matter is that there are too many roses produced, such as they are. Our rose growers are too solicitous for a large aggregate cut. The foreman should be given to understand that the test of his ability is not to be how many blooms, but how many net dollars he can take out of a given house. The time has gone by forever when a large quantity of cheap stuff can be depended upon to pay the bills, and in a full realization of this fact lies a large part of the solution of the existing trouble.

The market here can easily stand a reduction of 50 per cent. in the number of roses sent in, and this should be accomplished without throwing out one good plant or reducing the extent of the rose houses a single foot. Improve the quality, gentlemen. Limit your plants to three or four blooms for every ten they now produce and have those blooms good. It will take fewer boxes to carry your cut to market in the morning, but you will get more money back and at the same time be doing your individual share towards bringing about a healthy and regular condition of the rose market.

There has been this season an unusual amount of dissatisfaction among the retailers regarding the high prices demanded at the holidays. But the retailers have really little to complain about. Time was when they were glad to pay \$15 to \$18 for *Bon Silenes*, \$35 for *Mermets*, \$75 for *Marchal Niels*, and almost unmentionable figures for *Jacqs*, and this not alone at the holidays, but the figures held away up through January and February. They found no fault with paying \$35 to \$50 for *Harrisii* lilies, and \$10 to \$12 for lily of the valley and many other things in like proportion. Now the holiday advance is confined to roses, violets and carnations. As far as bulbous stock is concerned, it is true that large quantities were sold during the late holidays at less than the cost of production. The fact is that it is not so much the price as the quality at the price that the retailer has just cause to complain about. It is not that one hundred *Mermets* costs him \$25, but that out of the hundred *Mermets* there is quite a percentage that his customers in their present critical mood will not have at any price. Given one hundred roses, out of which he can get eight dozen number one salable blooms, and he will have no cause for grumbling.

One of the worst features in the New York wholesale market is the course pursued by many of the growers towards their commission man. There is scarcely a week that we do not hear of some big grower taking his consignments away from one house and giving them to another. The same grower will sometimes change several times during the season, (one I have in mind has changed five times within a year) and the inconsistency is emphasized by the fact that they not infrequently end up the season with the house they started in with originally.

It would seem that a man who had done business through the commission men for years should by this time be able to judge of the honesty, enterprise and capability of the various houses and to select one whom he could trust, and stick to him. The ultimate effect of this policy of coercion, of playing one commission house against another must of necessity be demoralizing, and only aggravate those evils which it pretends to combat, and it is not surprising that the



PTERIS SERRULATA EBLEII.

commission business in New York has of absolute compulsion, ceased to a considerable extent to be a commission business and become a speculation.

There are enormous quantities of tulips coming into the market, especially red, for which there is almost no sale. Lily of the valley, hyacinths, freesia and all kinds of bulbous stock is extremely plentiful with only a limited outlet. The bulb problem is becoming a serious one. It is perhaps yet too early to predict, but unless conditions improve greatly, when the large bulb growers sit down next spring to count up their winter's profits they will find little in the total results to encourage them. The shipping trade in this class of stock is practically a thing of the past. Every grower throughout the country, big or little, looks out for his own bulb supply. Not only that, but if within five hundred miles of a big city he dumps a lot of his surplus bloom on to the city market and

hopes to get enough out of it to pay his rose bill. In consequence of these changed conditions the whole production of our big establishments which once went out over the country through a hundred different channels is now forced on to our local market, with no other outlet whatever, and there is more of it than we can use. This will adjust itself in time no doubt, but for the present it is extremely unfortunate for all concerned.

Boston.

The annual supper of the Gardeners' and Florists' Club of Boston took place at the American House on the evening of January 19. Mr. Edward Hatch, who has been appointed chairman of the committee on decorations, showed what could be done in this line with a little persistence and determination. No florists' supper in Boston has ever been so

lavishly decorated. The tables were loaded with baskets of flowers, and dracaenas, azaleas, araucarias and tropical plants in great profusion; the corners and sides of the room were grouped with plants and the chandeliers hung with asparagus.

There were far more flowers than the tables could accommodate and these were disposed in great baskets which were hung on the walls. Mr. Hatch was consequently in high spirits, too happy to even think of eating. The donors of plants and flowers were Frank Becker, F. L. Harris, W. H. Elliott, Bussey Institution, Norton Bros., N. F. McCarthy & Co., Ewell & Son, Jas. Comley, Welch Bros., K. Finlayson and Wm. Edgar.

The attendance was large, numbering about 100, all branches of the profession being well represented except the retail trade, of which there were but few representatives present. The retailers by a large majority care little for these social occasions, and seem to find much more enjoyment in the cheap notoriety obtained from having their names printed in the *Sunday Globe* as having been seen on the Brighton Road behind a "fast trotter."

Prominent among the invited guests present were President N. T. Kidder, of the Mass. Horticultural Society; Mr. J. H. Woodford, chairman of the committee of arrangements of the same society; Prof. B. M. Watson, Jr., of the Bussey Institution; Judge C. W. Hoitt, of Nashua, N. H.; Mr. Samuel Henshaw, Staten Island, N. Y., and Mr. C. B. Weathered, of New York City. President Jackson Dawson presided and Mr. Elijah A. Wood filled the position of toast master most acceptably.

President Dawson briefly welcomed the guests and members to this the seventh anniversary of the organization of the club and congratulated the organization on its prosperous condition. Mr. Kidder was then called upon to respond for the Mass. Horticultural Society, which he did eloquently, extending in the name of that society the best wishes for the club's welfare. He was followed by Prof. Watson who spoke of the educational privileges extended at the Bussey Institution, and also highly commended the work being accomplished by the numerous florists' organizations throughout the country. Mr. Henshaw told some of his characteristic stories about the gardener's life in Old England, and occasioned much merriment as he contrasted the lot of the young men in the business to-day with that of the young gardeners of his time, when despotic foremen were wont to lock themselves inside the propagating house when doing any careful work, and the only opportunity the young men could get to learn was to break the glass or peep through the keyhole, or else pay a good round price for their "footing."

Ex-President Morton was the next speaker. He said he had found it not only a great honor but a pleasure to preside over such a body. Judge Hoitt was in a happy vein as usual and told of his recent visit to New York, paying his respects particularly to Mr. David Allan with humorous allusion to the New York welcome extended to him by Mr. Allan on that occasion. Mr. P. Welch being called upon as chairman of the committee of arrangements, expostulated with the chairman, claiming that he had promised not to call upon him, a dodge which is getting to be a regular thing with Mr. P., but which does not always work. Other speakers were ex-President Norton, J. H. Woodford, Lawrence Cotter, Edw. Hatch and W. J. Stewart. Songs were rendered

by Messrs. Linnehan, C. J. Dawson, Driscoll, Mahan and Elijah Wood. Letters were read from Prof. Goodale and Prof. Ganong, of Harvard College, Messrs. Robt. Manning, D. D. L. Farson, John Young, E. Koffman, F. L. Harris, A. H. Ewing and representatives of many of the Florists' Clubs throughout the country.

On Saturday, January 28, Mr. Samuel Henshaw, West New Brighton, N. Y., read a paper before the Mass. Horticultural Society entitled "A Historical Sketch of English Horticulture." The essay was a comparison of what horticulture is to-day and what it was in the most remote periods of English history, a historical and personal retrospect.

We are, he said, almost entirely in the dark regarding the cultivation of either fruits or flowers previous to the Roman occupation of England. We do know that wherever the Romans had obtained a footing on the Islands it was not long before they introduced and taught the cultivation of all the desirable fruits and vegetables of that period. He told of the elaborate relics that had been exhumed in various places in England and the many evidences of refinement found, leading to the unavoidable conclusion that in those early days the choicest of horticultural productions must have been cultivated for the refined tastes of the people who came from Italy to make England their summer home.

Little is known of the flowers of that period, but the paintings on the walls to be seen in many of the buried cities represent palms and other plants as household decorations. The abandonment of England after an occupation of 400 years as a Roman colony brought about a state of things unfavorable to the progress of horticulture, and history is almost silent on the subject for a long period, but there is abundant evidence that the work begun by the Romans was not entirely abandoned.

In the Saxon period we begin to have some little record of what was being done in horticulture, and some of the early traditions speak of the old fashioned flowers and the uses made of them on funeral and other occasions.

In the unsettled times following the Norman invasion the pursuit of horticulture was mainly followed by the inmates of the various religious houses. The gardens attached to the old abbeys and ancestral homes may still be seen in various parts of England and in many of them are to be found some of the best examples of horticulture in the world to-day, samples of the prevailing styles of gardening being shown side by side with those in vogue centuries ago, and the fruits, flowers and sweet and medicinal herbs so highly prized in those days when the old grandmother was the only doctor thought of.

The old gardens at Berkeley Castle are kept much in the same style as they were in the fifteenth century. Yew and box are cut and trimmed into most grotesque shapes and there are York and Lancaster roses, eglantine, lavender, rosemary, single hollyhocks, wall flowers and clove pinks in abundance. At Haddon Hall is an old garden planted in the style fashionable during Queen Elizabeth's reign. The lawn in this garden has not been disturbed for centuries, yet the grass looks and feels like velvet.

The conquest of India yielded many new treasures to British horticulture and the American colony founded originally for commercial purposes gave fresh zest to the cultivation of many plants entirely

new to the Old World. The dahlia, poinsettia, verbena and many other popular plants were first found in the Western Hemisphere.

The establishment of Kew Gardens was followed by the sending out of collectors to unexplored regions both by the government and by private individuals, and thus were developed some of the most distinguished botanists and plantmen of the last century, who soon began the dissemination of a knowledge of horticulture through their writings and books. The London Horticultural Society with its exhibitions, experimental grounds and records of transactions has been a great help to bring the work of enthusiasts in horticulture before the public, and the establishment of the experimental garden at Chiswick has furnished a headquarters for maintaining correct nomenclature of all plants worthy of cultivation.

The fondness of the people of Great Britain for detached homes surrounded or approached by a garden seems inborn, and the amount of time, labor and enthusiasm they will bestow on the culture of their favorite plants, and in the endeavor to raise new varieties is astonishing, and it is remarkable that some of the most successful growers have been those who followed an entirely different calling for their daily bread. Tulips, carnations, picotees, auriculas, pansies, wall flowers and many old fashioned flowers seldom seen now were grown, and many of the improved forms of these flowers seen to-day owe their development to these amateur growers of a century ago.

Speaking of the old gardeners and the part they took in the development of horticulture in England, Mr. Henshaw said that at the end of the last century and up to the early part of the present century the men in charge of some of the finest places were comparatively isolated from the rest of the world, the estates being far apart, travel slow and difficult, and consequently they were left in a great measure dependent upon their own resources, but this isolation gave them the opportunity to stamp their own individuality on some of the features of the estates in their care, and many of the best samples of gardening to be seen to-day are the work of these men.

Enumerating some of the most famous estates the essayist mentioned Chatsworth, where the Victoria regia was first flowered and where the first greenhouse was built for the growing of aquatics; Shrubland Park, where many of the present race of geraniums and other bedding plants had their origin; Bleheim, one of the best examples of landscape gardening as practiced by Humphrey Repton; Trentham, famous for the successful forcing of all kinds of fruits; Ashton Court, where are the finest samples of American plants to be seen in England; Styal, famous for its rhododendrons; Worsley Hall, once famed for its pineapples and now for its fine collection of fruits, and many other beautiful private estates.

He also gave an interesting description of many of the public parks, located often in the midst of densely populated smoky districts, but which in spite of unfavorable surroundings have by the intelligence and enthusiasm of the gardeners in charge been made to yield grand results in exhibition plants and flowers besides being at the same time great public educators.

The paper closed with an allusion to the marked improvement in the literature connected with our profession, especially in the trade catalogues, and the many evidences to be seen in every direction

that the taste for horticulture is growing rapidly. The foregoing is but a hasty synopsis of the lecture which lack of space only prevents our printing in full. It proved very interesting to the large audience present.

Philadelphia.

The past week has shown some improvement, but there would need to be at least twice as much business doing to use up all the flowers offered, and growers are at their wits end to dispose of the stock at decent figures.

One grower in speaking of prices said: "How is it that—gets his price for all of that rose he has to sell?" And answering himself, said, "Simply because he has it all; if there was the same quantity coming in every day that there is now, but divided up between half a dozen growers, the price could be away down. If I had all the Brides coming into town I could sell just as many as are sold now and get at least \$12 a hundred and the storekeepers wouldn't have a word to say, in fact would be better satisfied than they are now when it is hard work to get them to pay \$8."

Bride seems to be the poorest selling rose at the present time, but it would be a hard matter to pick out a rose that is in demand, if we except a few choice hybrids, which if they were at all plenty would no doubt be classed with the others.

John Burton is now sending in some nice Beauties and his Cusins are also fine. His hybrids have not so far been a success. George Anderson has had some fine Bruners but not near enough to go around. He expects to cut out of a new house next week, as will Mr. Heacock whose second house will be in by that time.

Mr. Harris is now sending in some fine tulips. The houses are good and there is quite a variety of colors.

There are a great many carnations about but we hear of no good ones being sold for less than \$1.50 per hundred. Wilder still holds her head aloft, and is clearly the best pink carnation in the market to-day. There are a number of florists who do not know how to grow it and send in a lot of weak stemmed streaky and bursted flowers. At Thos. Meachan's in Germantown, there is a house or two of it however which is magnificent and the flowers readily bring 50 cents to a dollar a hundred more than other varieties. It may go down in the campaign of next season but as it has successfully defeated so many rivals we will wait and see.

Robert Craig has what appears to be a very useful device for staking or training carnations. Wires are strung above and close to the ground below the plants, and to these from the base of each plant to the top, in the manner of a stake, is another light wire. Before this wire is placed it has two loops made in it from 6 to 8 inches in diameter and about the same distance apart, the bottom loop being about 6 inches from the bed. When set up the plant is drawn into the loops which are like a piece of string tying the plants to a stake only that they are firm and any extra shoots may be easily drawn into the ring like loops and rest there; it is the best thing of the kind we have seen yet.

Prices are a little lower. Roses—Mer-mets, Brides, La France, out side price 8; Cusins, Wattevels, 3 to 7; Hostes 5; Perles, Gontiers, 4 to 5; Beauties 25 to 50; Hybrids 35 to 75; Bennetts, Metcours 10 to 12; Guillots, Woottons 5 to 6; tulips 5; narcissus, Romans, 3; Campenelles 2;

valley 3 to 4; carnations \$1.50; violets \$1 to \$1.50.

His Dukeship, our Lonsdale, is all smiles these days. He is kept constantly acknowledging the compliments that come to him on his appearance in the carnation number of the *FLORIST*. His numerous friends about here are delighted, now that he has added horsemanship to his other accomplishments. They had no idea that he could assume such a military bearing.

Bowling on the club room alleys is increasing, all the classes being well represented. In the first class Mr. Harris is showing the boys what he can do and is now leading the van.

Chicago.

Trade has continued generally good during the past week, and stock sells out quite clean. Few flowers are of very high grade, there being a good many second rate roses and carnations, though bulb stuff is, in most cases, good. Carnations are scarce in the best grades; in roses we hear of no hybrids as yet from local growers. Where they are required to fill orders they are sent for from eastern growers. A few *Mme. Testout* come in; they may be called the cream of the fancy roses. *Mermets* are rather poor in quality, being lacking in color; *La France* and *Albany* are good.

Daffodils are more plentiful; they sell very well. *Dutch hyacinths* are still limited in quantity, but very good. *Tulips* have been a trifle scarce for a few days. *Valley* is plentiful, and *freesia* is coming in more freely. It is fine in quality. It may be noted that the finest *freesia*, like the most attractive *narcissus*, *valley* or *hyacinths*, is cut with an abundance of foliage, prettily bunched together, good handling adding materially to its value.

Violets are more plentiful; some have been sold for \$1, but the price is generally good, and they are certainly in fine demand. Though we do not hear of an extraordinary number of very large entertainments, society is quite busy, and trade is better than it was before the holidays. At the present time supply and demand continue just about even.

At the last meeting of the Chicago Florist Club the paper on Japanese cut flowers by Mr. Henry Izawa, was the event of the evening. The discussion of the paper was very free and the essayist was also freely questioned regarding matters other than the subject of his paper. The paper and a brief synopsis of the discussion is given elsewhere in this issue.

New Orleans.

For the first time in several years sufficient frost has fallen to seriously injure many of the splendid specimen palms that flourish upon the domains of the elite of this city, and are guarded with jealous care by the several gardeners who make them their special pride. The most tender is *Phoenix reclinata*; its sister kinds *canariensis* and *dactylifera*, are apparently uninjured, *Lantana Bonbonica* slightly hurt, *Washingtonia robusta* unharmed. In a sheltered nook in the garden of Mrs. Whitney such kinds of ferns as *Pteris albobrunnea*, *Lastrea arist. var.*, *Strobilium cicutarium*, and *Adiantum Capillus-Veneris* are not seriously hurt. Standing in the open is a grand specimen of *Chamerops humilis*, ten feet high, one of the pets of George Thomas, Mrs. Whitney's gardener; a

fine specimen of *Bignonia Chamberlainiana*, a climber with blooms similar to an allamanda, is worthy of special notice.

At Mrs. Richardson's (Harry Papworth, gardener) we noticed some seventy-five specimens of palms, containing some of the rarest varieties in cultivation; especially fine were *Phoenixophorum sechellarum*, *Martinezia Carvotefolia*, *Carludovica palmata*, *Pritchardia Gaudichaudii*, *Ptychosperma Cunninghamii*, *Arcia Sandricana* and *A. Madagascariensis*. Ferns: *Pteris Smithiana* and *Victorie*. Orchids: *Angraecum sesquipedale* and *A. eburneum*, very fine. A unique arbor has lately been built; it is 100 feet long, and 12 feet high in centre, running the entire length of the garden; it was planned by Mrs. Richardson and erected under the direction of Mr. Papworth, who intends planting the choicest climbers for the purpose of covering what is a piece of art, and doubtless the most expensive arbor ever built.

Chas. Taube, gardener to Mrs. Gordon, has in his choice collection some grand *adiantum*s, which he is making a specialty.

S. Hershheim (Gustav St. Mard, gardener) has standing upon the lawn what is considered to be the finest specimen of *Phoenix canariensis* in existence; it is about 40 feet in diameter and 20 feet in height, a noble plant. In the greenhouses some elegant specimens of *Alsophila australis* and *Asplenium nidus* are flourishing.

Buffalo.

At last our Florist Club has had a meeting and it was by a unanimous vote decided that we should hold our annual chrysanthemum exhibition in the fall. We cannot afford to let it drop and perhaps with the accumulated experiences of previous years we shall learn to make them a financial success. The heavy drain on the treasury is the amount of the premiums. We shall endeavor to reduce that to a minimum by soliciting our own members and leading firms of the city to donate a prize; with very little trouble the whole of the premiums could be secured in that way and then success would be assured. At our last meeting Mr. Harry Balsey of the "Detroit Pottery Co." was present and set the ball rolling by tendering a substantial premium in the name of his firm.

The weather has moderated greatly and although still enveloped in a deep and beautiful mantle of snow the sun shines brightly and business is greatly benefited by the change. Plants have sold well and cut flowers are in better demand. Buffalo has usually had at this time an abundant supply of first class tulips, but growers seem to have been afraid to bring them in fast enough. Whatever the cause there is a great demand for them, especially yellow, and the supply is far short of the demand. Of other flowers about enough for the demand, except white carnations, which are over done and violets are a little too plentiful.

Mr. Krueger, of Meadville, Pa., called on his old friends in Buffalo this week. Mr. Krueger does a general business in Meadville, supplying about the whole of Crawford Co., and has been phenomenally successful. He was looking after a good man to run his establishment, hoping soon to take things a little easier.

At the suggestion of a member of our club a report as to the relative cost of coke and coal is to be prepared. Most of the city florists and those in the near

vicinity use coke. Some use coke in the day time and coal at night and a few coal entirely. I hope the committee to whom this question is referred will bring in a thorough reply to this often repeated query, "which is cheapest?" The writer believes that at Buffalo rates (\$5.00 per hundred bushels) with all the extra expense and a fireman half, or perhaps all, the night, that there is yet a saving of 25 per cent. with coke over hard coal.

W. S.

Montreal.

The Montreal Florists' and Gardeners' Club held their annual meeting and election of officers on Tuesday evening, Jan. 24, when there was a large and representative gathering.

The following officers were elected for the ensuing year: Walter Wilshire, Pres.; Colin Campbell, 1st Vice-Pres.; Jonathan Bland, 2nd Vice-Pres.; Henry Stocking, Sec'y.; John Dunbar, Treas.; Wm. Whiting, Ass't. Sec'y.; Wm. Graham, Cor. Sec'y., (Box 555); John Perrin, John Kirkwood, John Eddy, James Bray, Thomas Baud, James McKenna (retiring president), Committee.

After the business meeting was brought to a close, about 50 members of the club sat down to the third annual dinner, held at the Montreal Cafe, St. Catherine street. Mr. James McKenna, retiring president, ably occupied the chair, supported on his right by Mr. Walter Wilshire, President-elect, and on his left by Mr. John Doyle, President Montreal Horticultural Society. When the good things had been done justice to, toasts, speeches and songs were indulged in till 2 a. m.

The Montreal Florists' and Gardeners' Club is in a flourishing condition, notwithstanding the reverse suffered by the inclement weather during the holding of their last chrysanthemum exhibition. The members are undismayed, and are stimulated with the desire to make greater efforts in the future and achieve the success they so well deserve. W. G.

Toronto.

The first thing to be mentioned in this week's notes is the late carnation number of the *FLORIST*, the verdict of the trade in this city is "highly commended."

Mr. J. H. Dunlop arrived home safely after attending the Executive Committee meeting of the S. A. F. at St. Louis; he does not seem to have come across any place he liked better than his own down there.

At the next meeting of the G. and P. Association Mr. C. Tidy will read a paper entitled "Suggestions as to dealings between growers and retailers." A full meeting and a lively time is expected.

The seed catalogues for 1893 are beginning to show up now. The covers of some of them can only be described by the word "magnificent." Why can't we grow flowers as good and vegetables as round and big and prolific as they are depicted in the catalogues? It seems as easy as falling off a log when one reads the directions given.

The weather has moderated somewhat but it snows a good deal. Business still keeps fair. Carnations plentiful and in good demand.

E.

San Francisco.

The California State Floral Society held its first meeting for 1893, on January 13'

Upwards of forty members were present. Prof. E. I. Wickson, presided. Nearly all the former officers were re-elected. E. I. Wickson, who occupied the presidential chair so well during 1892, was re-elected unanimously, and F. A. Miller, chairman of floral committee, John H. Sievers, florist read a very interesting paper upon "Orchids." Florist F. A. Miller exhibited some recent imported lily of the valley pips which caused an interesting discussion. Mr. G. M. Stratton, of Golden Gate Park, was admitted as a member. The society meets the second Friday in each month, financial standing good, and has several hundred members.

News Notes.

SOUTH DENVER, COL.—J. L. Russell has sold his flower business on Sixteenth street to Avery Gallup.

KEARNEY, NEB.—Mr. F. Mitchell Green has succeeded to the business of the Kearney Midland Floral Co.

CRAWFORDSVILLE, IND.—Krause & Crist are about to open a down town office for the sale of plants and cut flowers.

SEA CLIFF, L. I.—Fire did serious damage to the mushroom houses of Fd Bonlon the night of January 12. Loss is estimated to reach \$3,000.

SPRINGFIELD, MASS.—The firm of Miller Bros. & Chapell, has been dissolved by mutual consent and the business will be continued by Charles R. Miller & Co.

KENTON, O.—F. N. Perkins is planning to erect an extensive greenhouse plant here the coming summer. He expects to cover three-quarters of an acre with glass.

BROOKLYN, N. Y.—Fire broke out in the greenhouse of James Daley, 9th avenue and 20th street, January 16. Stable and greenhouse were destroyed, with most of their contents; loss covered by insurance.

HIGHLAND, N. Y.—The morning of January 17, fire destroyed six greenhouses, potting shed, boiler house, etc., at the establishment of Adolph H. Folger. The loss is estimated at \$4,000 on buildings and \$8,000 on stock. Two houses are all that remain uninjured.

NEWARK, N. J.—The Executive Committee of the New Jersey State Horticultural Society met here January 6, to hear the report of the special committee on the state exhibit at the World's Fair. The report was very satisfactory and gives promise that the little state of New Jersey will do her duty.

ELIZABETH, N. J.—E. P. Beebe has added several large new houses to his place on East Grand Street. The block of glass when completed will be 50x90 feet, in connection with a brick store 20x60, in the cellar of which the boilers are located, and the upper floors of which are fitted up as flats to be rented.

NEW ORLEANS.—The sixth annual exhibition of the New Orleans Horticultural Society will be held at Odd-Fellows' Hall, March 23 to 26. The list of premiums has been printed, and copies may be had on application to the Chairman of the committee of arrangements, Mr. John Eblen, Hurst street and Nashville Ave.

MILWAUKEE.—Wm. Edelsen will build his new houses with the long span to the south. The Wisconsin Flower Exchange

has obtained judgment against Geo. Volk, but that party's funds are "out of sight." C. B. Whitnall & Co. were obliged to pay 20 per cent. duty on paeonias imported this year—quite a surprise and disappointment. Quite a number of the growers got nipped by frost lately. Business has improved very much the last two weeks. Mermets roses are scarce.

DECATUR, ILL.—Adam Balmer lost his potting shed and part of two houses by fire January 24. The fire is supposed to have caught from the chimney burning out and the soot setting fire to the shingle roof, but it had burned on the inside a long time before breaking out, as everything was charred through. The smoke killed most of the stock in the houses and the heat cracked about 1,000 lights of glass. The loss to business, shed and stock will reach \$1,000. No insurance. The new shed erected in place of the old one is of corrugated iron.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED By young man, in seed house, 10 years experience, European and American. Address: W. F. S., 35 Midden Lane, New York.

SITUATION WANTED As gardener and florist. Thoroughly practical; roses, carnations and all kinds of flowers. V. W., Union St., Elizabeth, N. J.

SITUATION WANTED By competent gardener and florist, German; 10 years experience; private or commercial; south or west preferred. Address: J. S., care American Florist.

SITUATION WANTED By foreman of commercial place, where rose growing is a specialty. American; single; 18 years experience. Address: ROSE GROWER, Riverton, N. J.

SITUATION WANTED As foreman; of exceptional ability and experience, who is also a floral artist; best of references; mention salary. Address: A., care American Florist, Chicago.

SITUATION WANTED Gardener and nurseryman; a young man who has had practical experience in the business. Good testimonials. Address: FREDERICK EDWARDS, care American Florist.

SITUATION WANTED By competent florist and gardener; open for engagement by first part of February; single man; German. Address: W. H. GARDNER, care Van Hook & Harvey, 14 Federal St., Allegheny City, Pa.

SITUATION WANTED By a practical florist with 25 years experience in growing roses, carnations, palms, orchids and general plants, good cut flower maker and decorator; married. The highest salary preferred. C. M. S., care American Florist.

SITUATION WANTED By an all-round florist, German, single, with 10 years experience in growing of roses, carnations, chrysanthemums, violets, soil plants, palms, ferns, propagating and forcing of bulbs. West preferred. Address: A. G. J., care American Florist.

SITUATION WANTED A good place for a good man. A thorough, practical rose grower, etc., being with us two years, we are desirous of seeing him in a situation that his ability deserves. Wholesale establishment and west preferred. Address: A. SCHROEDER, Rose Co., Anchorage, Ky.

SITUATION WANTED German gardener, thoroughly experienced in indoor and outdoor work, desires position in good florist's business, to work under foreman; eastern city preferred; best of references from Germany, England and Italy; salary wages. Address: H. GERTSE, care Mr. Vanhook, Western Springs, Ill.

SITUATION WANTED By an energetic first-class man, as head or second gardener; has had many years practical experience among orchards, stone plants, shrubs, etc., with a thorough knowledge of outdoor work, both here and in England; references as to ability, habits, etc., from last employer. Address stating terms to: O. H. H., care H. M. Gray, 15 Berkeley Ave., Orange, N. J.

WANTED Catalogues of vegetables and flowers. Address: MESSENGER, Box 18, St. Cloud, Minn.

WANTED An improver who wishes to obtain good knowledge of the trade and is willing to work. Address: ASCHORAGE ROSE CO., Anchorage, Ky.

WANTED In Montana, florist and gardener; able to grow and propagate all kinds of plants. Address: MONTANA, care American Florist, Chicago.

WANTED Experienced florist with some capital, will offer him the location and material assistance to start business. Address: R. T. McNAUGHTON, Jackson, Mich.

WANTED A young man for general greenhouse work; must have commercial experience; state age and particulars; wages \$4 per month. Address: SEATTLE FLORAL CO., 361 & Cedar Sts., Seattle, Wash.

WANTED Immediately, a good all round florist as assistant in greenhouse work. Wages \$15.00 a month with board, steady employment with prospect of a raise. German preferred. Address: O. R. DEMMELE, Eau Claire, Wis.

WANTED Active florist having stock to fill about 6,000 square feet of glass, wishes to enter business already established, or new plant in town with local trade. Address: BEGINNER, care American Florist.

WANTED Assistant; married; un, accustomed to carnations and bedding stuff. Must be able to take the lead in the department. Wages 8 per week and free house. Give reference when applying. Address: JOHN RECK, Bridgeport, Conn.

WANTED A thorough, experienced rose grower; only first-class man wanted. Must be married, sober and willing to work. Address, with copies of references from former employers, age, nationality and wages expected. Address: ROSES, care Am. Florist.

WANTED Vegetable gardener by March 1st, on gentleman's country place; single man, one who thoroughly understands growing all kinds of vegetables; situation permanent; state wages expected and give reference. Address: GARDENER, P. O. Box 155, Philadelphia, Pa.

WANTED Good all around man to take charge of a new place; must have expert, use in landscape gardening with knowledge of shrubs and trees and their management. Man of fine ability in business giving experience, references and salary expected. Address: S. M. MILLARD, 15 Monroe St., Room 12, Chicago.

FOR SALE Six-room cottage with ground 50 feet front 150 ft. deep; also greenhouses well stocked, on ground 150 ft. ft. at Riverside, Ill. Apply to: C. R. OVERY, La Grange, Ill.

FOR SALE At a bargain and on easy terms, a good business in a flourishing city near St. Paul. Proof profits over \$1,200 per annum. Address: S. E. J. B. C., care American Florist.

FOR SALE Florist and nursery business, 3 houses, 2,200 feet of glass, all under glass, in city of Chicago. Good shipping point; good reason for selling. Address: A. B., care American Florist.

FOR SALE Three greenhouses, mostly new, well stocked; in town of about 4,000; trade excellent; good reasons for selling. Address: DR. F. M. MICHAEL, or H. F. HOLLAND, Eaton, O.

FOR SALE In Evanston, Ill., rebuilt 3 greenhouses, size 20x50 feet, stocked with sunflowers, carnations, roses; heated by hot water. Address: W. J. DOWNS, 39 Sherman Ave., Evanston, Ill.

FOR SALE A well established floral business, over 2,000 feet glass, well stocked with roses, carnations, and a large general stock. In a thriving town, two colleges, no opposition. Address: W. L. AUSTIN, Box 810, Geneseo, Ill.

FOR SALE 12 section Foster boiler; will heat 2,000 feet glass, 100 ft. or 100 ft. under pressure of steam; has been used four years; is in good condition. Price \$150. Address: W. A. BOCK, 22 North Ave., Cambridge, Mass.

NOTICE.

We beg to inform you that our partnership under the firm Kayk Brothers, Florists, Hillegom (Holland), is dissolved on the 1st of January, 1895. From that date all correspondence concerning the business of Kayk Brothers in liquidation should be sent to their liquidator, D. J. van Stockum, Esq., Notary, Lisse, near Haarlem (Holland). Kayk Brothers in liquidation, W. K. K. K. Hillegom, Jan. 1, 1895. K. J. K. K. K.

FOR SALE.

Ten greenhouses, about 15,000 square feet of glass, with two acres of land, and stock for sale very cheap. The houses are in good condition, situated in one of New England's best localities, with a large and extra good house, heated by a first-class steam plant, cost \$1200, pots and implements. This is a fine opportunity for one wishing to buy an Established business, as the property is in good condition, ready for the coming season, and will be sold, as the present owner has other interests to look after.

For further particulars apply to

N. D. WINTER,
No. 5 Elm Street, Springfield, Mass.

FOR SALE CHEAP.

An excellent commercial greenhouse establishment, 7 miles from Chicago City Hall, in suburbs, 22 houses, about 100,000 square feet of glass, thoroughly heated by hot water and steam; also has the residence for owner and for superintendent, barns, ice house, root house, perfect water supply, 3 acres of orchard, 2 acres of paeonies 3 years old, tools, etc., necessary for business; all situated on eleven acres of land alone worth \$10,000. Price perfect. Price \$10,000. If interested, write for any other information. Houses in perfect condition for business. Address:

M. E. PAGE, Jr.,
211 Lake Street, CHICAGO.

BECAUSE

You were unsuccessful in growing the American Beauty is no reason why you can't grow the American Belle. With the ordinary treatment which the average florist gives the Beauty and fails, the new rose

"American Belle."

under similar circumstances would be entirely successful. Don't overlook that fact. Cut it out and stick it in your hat. I have been telling you principally about the

GAIN IN COLOR

In my previous announcements; but I must not overlook the fact about its being a more satisfactory **Grower and Bloomer** with the average treatment. And don't be afraid to send a small order. The same rate for 25 as for 100. Make up your mind to-day. I want to hear from every grower in the country, and the sooner you come the better I'll like it.

JOHN BURTON, Chestnut Hill, Philadelphia.

THE ROSE BRIDESMAID.

THE PERMANENT-PINK,
NEVER-DEFORMED

PERMANENT-PINK,
NEVER-DEFORMED

PERMANENT-PINK,
NEVER-DEFORMED

PERMANENT-PINK,
NEVER-DEFORMED

PERMANENT-PINK
MERMET,

THE ESTABLISHED
SPORT,
OF THE
SUNNYWOODS GREENHOUSES.

FRANK L. MOORE,
CHATHAM, Morris Co., NEW JERSEY.

FORCING ROSES

All the old, and such new varieties as have been proved, kept in stock.

M. A. HUNT,
TERRE HAUTE, IND.

10,000 *Nymphaea Odorata* or White Water Lily Roots
FOR SALE.

Price, \$5.00 per 100; \$40.00 per 1000; or will exchange for seeds plants or bulbs. For further particulars address B. L. CLARK, Randolph, Mass.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

PERLE ROSES.

ALSO BRIDES AND MERMETS.

No better stock in New York State. Orders solicited for April or May delivery, in 2½-inch pots; or in 4-inch pots June and July.

NIPHETOS, BON SILENE AND MME. HOSTE IN LIMITED QUANTITIES.

Salter Bros.,

42 W. Main Street, ROCHESTER, N. Y.

Golden Returns.

200,000 ROSES 200,000

We offer well established, healthy plants in below named and many other sorts:

From 2-inch pots, \$ 3.00 per 100; \$30.00 per 1000

From 3-inch pots, .60 " 60.00 "

From 4-inch pots, 12.00 " 120.00 "

Not in excess of any one variety.

50,000 Hybrid Perpetual Roses 50,000
at \$1 per 100; \$40 per 1000, in 50 select varieties.

New and Rare Varieties at Special Rates given in our Wholesale List, now ready.

WE NAME A FEW SORTS ONLY:

Aurora, Bosphore, Comte de Labertie, Bon Silene, Cels, Devonensis, C. Mermet, Etiole de Lyon, Hermosa, Mme. Cusin, H. M. Stanley, Malmaison, Marie Guillot, Mme. Lalande, Marie Lambert, Marschal Niel, Kruger, Niphetos, Mme. Jos. Schwartz, Safrano, Perle des Jardins, Sombreuil, The Bride, etc., etc.

For anything in the Florist line, or send your lists to be priced. Address

NANZ & NEUNER,
LOUISVILLE, KY.

ROSES.

TRAYS \$30.00 per 1000
HYBRIDS 81.75 per 1000

Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE KY.

ROOTED CUTTINGS OF ROSES AND CARNATIONS.

La France, Prieles and Gontiers, . . . \$1.75 per 100

Mermets, Brides 1.50 "

L. McQuinn, Am. Flag, 1.50 "

Spray, Wilder, Lamborn, 1.50 "

Free by mail. Cash with order.

J. J. Lamport, 535 N. King St., Xenia, O.

Always mention the American Florist when writing to advertisers.

SMILAX. ©

50 strings and under, 15 cts. per string.
75 strings, 14 cts. "
100 strings, 13 cts. "
150 strings and over, 12½ cts. "

SEND US A LIST OF THE

Rose Plants

You are wanting, for our prices.

THE NATIONAL PLANT CO.

DAYTON, OHIO.
Mention American Florist.

Roses of Rare Excellence; strong 1 and 2-yr., outdoor grown, budded and own roots. Leading Nurserymen call them "best ever seen." Shall we express sample?

Climbing, 2-yr., 3 to 5 ft., own roots . . .	100 1000
" 1-yr., 2 to 3 ft., own roots . . .	\$8 \$70
Hyb. P., 2-yr., 2 to 4 ft., budded or own roots .	7 85
" 1-yr., 1½ to 2 ft., . . .	8 75
Mad. Planter, 2-yr., 2 to 4 ft., own roots .	8 70
" 1-yr., 1½ to 2 ft., own roots .	7 80
Moss, 2-yr., 2 to 4 ft., budded or own roots .	9 85
" 1-yr., 1½ to 2 ft., budded or own roots .	8 75

Evergreens, 2, 3 and 4 feet, fine. Full Stock Fruit Trees, Ornamentals—Everything! Stark Bros., Louisiana, Missouri.

Water Lily Seed. *

<i>Nymphaea Zanzibarensis</i> ,	Trade pkt. oz. .50 \$1.00
" azurea . . . . .	.50 4.00
" <i>Cerulea</i>, . . . . .	.50 4.00
" <i>Scutifolia</i>, . . . . .	.50 3.00

Tubers and Plants of all leading varieties.

WM. TRICKER, Dongan Hills, N. Y.

YOU can never invest \$2 to better advantage than in a copy of our new trade directory and reference book.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agetic;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 26 times, 20 per cent; 52 times, 30 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN
 FLORIST is for Florists, Seedsmen, and dealers in
 wares pertaining to these lines ONLY. Please to
 remember it.

Orders for less than one-half inch space not accepted.
 Advertisements must reach us by Monday to secure
 insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

MECHAN'S MONTHLY has reached us in
 the form of a bound copy of volumes 1
 and 11. This periodical is a continuation
 of Prof. Mechan's "Flowers and Ferns of
 the United States," with some additional
 chapters on natural history and garden-
 ing. It is illustrated with beautiful col-
 ored plates, similar to those in the pre-
 vious publication, and the reading matter
 combines scientific accuracy with a
 charming literary style.

THE PRACTICAL NURSERYMAN is the title
 of a neat little publication issued gratui-
 tously by the Huntsville Nurseries, Hunts-
 ville, Ala. A feature of the price list it
 contains is the free use of the telegraphic
 code recently adopted by the American
 Association of Nurserymen, and that will
 undoubtedly save many dollars to the
 nurserymen as well as making telegraphic
 orders much more definite and easily
 understood.

THE WAYNE HORTICULTURAL Society
 of Wayne, Pa., has issued its premium
 list for 1893, giving notice of its spring
 show, March 23 and 24, and fall show,
 Nov. 1, 2, and 3. The classes for which
 prizes are offered show that the society
 is in touch with both professionals and
 amateurs, and should call out good dis-
 plays.

A box of pansies was recently received
 from Chapman & Hanselmann, Denver,
 Col., which they inform us they grow in
 cold frames, where they are often subject
 to freezing. They were fine blooms, large
 and richly colored, showing some remark-
 able markings among them. The growers
 inform us that their district is also finely
 suited for carnation culture.

MUSHROOMS for the million is the title
 of a pamphlet issued by John Gardiner &
 Co.; it gives a complete synopsis of mush-
 room culture in handy form, and is a use-
 ful little handbook for anyone with a
 taste for these savory vegetables.

IF YOU NEED ANY

Cape Flowers, Immortelles, Grasses,
 plain or fancy Baskets, Metal Wreaths,
 Letters, Doves, or any other thing in the
 Florists' supply line, mail us your order.

REMEMBER WE ARE THE

Leading Manufacturers of Wheat
 Sheaves and Baskets, and Importers
 of Florists' Supplies.

Catalogue on application. . . .

ERNEST KAUFMANN & CO.,

113 N. 4th Street, PHILADELPHIA, PA.

ALWAYS mention the AMERICAN FLORIST
 when writing to advertisers.

T. J. CORBREY & CO.,

45 LAKE STREET,

CHICAGO.

We are prepared to fill shipping orders with the best flowers
 in the Chicago market. Orchids in five, ten, fifteen
 and twenty dollar boxes.

Give us a trial when you want anything in the Cut Flower line.

CONSIGNMENTS SOLICITED.

Asparagus Plumosus Nanus.

CUT STRINGS: 6 to 8 feet long, 50 cents each.

10 to 15 feet long, \$1.00 each.

In large or small quantities all the year round. The largest stock in the country.

W. H. ELLIOTT, Brighton, Mass.**Bayersdorfer.**

LATEST NOVELTIES IN

Ferneries AND *
 Silver Baskets.

EASTER NOVELTIES IN

Baskets, of Bronze, Aluminum,
 Silver Plate, Solid Silver
 and Hand Engraved.

NEW CROP CAPE FLOWERS

JUST ARRIVED.

BAYERSDORFER,

56 N. 4th St., Philadelphia.

Mention American Florist.

**GEO. MULLEN,
WHOLESALE FLORIST.**

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House),

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express

promptly filled.

Mention American Florist.

MARSCHUETZ & CO.,**FLORISTS' • SUPPLIES.**

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

**WHITE DOVES**

FOR FLORISTS.

Largest and finest stock in the United

States. Write for prices to

S. J. RUSSELL,

103 Van Winkle St., Jersey City, N. J.

AGENTS:

J. C. Vaughan, Chicago, Ill.

H. Bayersdorfer & Co., Phila., Pa.

ROOTED CUTTINGS.

CARNATIONS, COLEUS, CHRYSANTHEMUMS
 and miscellaneous bedding plants cheap
 for cash. Send for Price List.

J. J. CONNELLY, Bryn Mawr, Pa.**HARDY CUT FERNS?**

Oh Yes, over

5,000,000.

I can supply you the year round with
 A1 goods. Also new Bouquet Green,
 Laurel festooning, etc.

H. E. HARTFORD,

18 Chapman Place,

BOSTON, MASS

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 FINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WM. ELLISON,

(Late of ELLISON & KUEHN),

WHOLESALE FLORIST,

AND FLORISTS' SUPPLIES,

1402 PINE ST. ST. LOUIS, MO.

H. L. SUNDERBRUCH,**WHOLESALE FLORIST**

4TH & WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,**COMMISSION • FLORIST,**

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES,

LONG'S FLORISTS' PHOTOGRAPHS.

Lists, Terms, &c. on application.

FINE CUT STRINGS

—OF—

Asparagus * Plumosus.**JOHN BURTON,**

Chestnut Hill, PHILADELPHIA, PA.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
 34 & 36 RANDOLPH STREET,
 CHICAGO, ILL.

WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
 Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
 Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 and Dealers in **FLORISTS' SUPPLIES.**
 CHAS. W. McKELLAR, Mgr.
 In Chicago Cut Flower Exchange,
 45 Lake St., CHICAGO.

M. OLSON,*
Wholesale FLORIST,
 66 WABASH AVENUE,
 Telephone 4786, CHICAGO, ILL.

T. J. CORBREY & CO.
 Wholesale and Commission
FLORISTS,
 45 Lake St., CHICAGO, ILL.
 In Chicago Cut Flower Exchange.

WHOLESALE FLORISTS

 N. E. CORNER
 13th & Chestnut Sts.,
PHILADELPHIA.
 Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
 REMOVED TO REAR OF 42 S. 16th St.,
 Philadelphia, Pa.

SMITH, The Florist,
 GROWER OF
Fine Roses & other Cut Flowers
WHOLESALE AND RETAIL,
 77 S. 7th Street, MINNEAPOLIS, MINN.

©Wholesale Market.

Cut Flowers.

NEW YORK, Jan. 31.	
Roses, Bon Silence, Gontiers.....	2.00/3 3.00
" Perle, Niphotos.....	2.00/3 3.00
" Mermel, Metete, Hodge.....	2.00/3 4.00
" Cusla, Watteville.....	4.00/3 8.00
" Bridesmaid.....	4.00/3 12.00
" La France, Albany.....	5.00/3 12.00
" Meteor.....	15.00
" Beauty.....	15.00/20 2.00
" Hybrid.....	25.00/3 50.00
Carnations.....	2.00/3 1.50
Mignonette.....	3.00/3 8.00
Romans, narcissus.....	2.00/3 5.00
Tulips, Valley.....	2.00/3 4.00
Hurris.....	3.00/3 8.00
Violets.....	1.00/3 1.50
Adiantums.....	1.00
Snulux.....	15.00/20 2.00
Lilac (bunch).....	1.00/3 1.50
BOSTON, Jan. 31.	
Roses, Niphotos, Gontier.....	3.00/3 6.00
" Perle, Sunset, Wootton.....	6.00/3 10.00
" Bride, Mermel.....	4.00/3 12.00
" Meteor.....	15.00/20 2.00
" Beauty.....	10.00/3 75.00
" Hybrid.....	50.00/3 75.00
Carnations.....	1.00/3 1.50
Valley, tulips.....	3.00/3 4.00
Hyacinths, daffodils.....	3.00/3 4.00
Violets.....	1.00/3 1.50
Mignonette.....	1.00/3 6.00
Culias, Harriell.....	10.00/3 2.00
Panicles, Picea.....	1.00/3 1.50
Snulux.....	17.00
Asparagus.....	50.00

PHILADELPHIA, Jan. 31.	
Roses, Perle, Gontier, Niphotos, Sunset.....	4.00
" Mermel, Bride, Albany.....	8.00/3 10.00
" La France.....	8.00/3 10.00
" Hosto, Cusla, Watteville.....	8.00/3 12.00
" Bonnet, Meteor, Gullot.....	8.00/3 12.00
" Beauties.....	25.00/3 50.00
" American Belle.....	50.00
" Brunner.....	50.00/3 75.00
" Laing, Magna Charta.....	50.00/3 50.00
Carnations.....	1.00/3 1.50
Mignonette.....	1.00/3 3.00
Violets.....	1.00/3 1.50
Romans, narcissus.....	2.00
Valley.....	3.00/3 4.00
Double daffodils.....	4.00/3 8.00
Tulips.....	4.00/3 5.00
Freesia.....	1.00/3 2.00
Culias, Harriell.....	8.00/3 10.00
Adiantum.....	1.00/3 1.50
Asparagus.....	50.00/3 75.00
Snulux.....	16.00/3 20.00

CHICAGO, Jan. 31.	
Roses, Perle, Niphotos, Gontier.....	4.00/3 5.00
" Mermel, La France, Bride.....	5.00/3 8.00
" Albany, Wootton, Brunette.....	6.00/3 8.00
" Beauty.....	20.00/3 25.00
Carnations, short.....	1.00/3 1.50
" white, long.....	1.50/3 2.50
" colored.....	2.00/3 3.00
" fancy.....	3.00/3 4.00
Romans Valley.....	3.00/3 4.00
Tulips.....	3.00/3 4.00
Narcissus.....	3.00/3 4.00
Freesia.....	3.00/3 5.00
Daffodils.....	5.00/3 6.00
Dutch hyacinths.....	6.00/3 8.00
Violets.....	1.00/3 2.00
Culias, Harriell.....	12.00/3 18.00
Adiantum.....	5.00 1.00
Heliotrop.....	1.00
Alyssum.....	40
Snulux.....	15.00/3 18.00
Adiantum.....	1.00/3 1.25

Peck & Sutherland,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
 — WHOLESALE —
 67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., BOSTON, MASS.
 Mention American Florist.

BURNS & RAYNOR,
 49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
 — WHOLESALE —
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
 51 W. 30th St., NEW YORK.
 FRANK D. HUNTER. JAMES PURDY,
 Formerly 112 W. 40th St.

JAMES HART,
WHOLESALE FLORIST,
 117 W. 30th St., NEW YORK.

The Oldest Established Commission House in N. Y.
 LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHR,
 — WHOLESALE —
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

MILLANG BROS.,
Wholesale Florists,
 5 WEST 27TH STREET,
 NEW YORK.
 BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale & Commission Florist
 113 WEST 30TH STREET,
 NEW YORK.

The finest Roses, Violets and Carnations
 Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
 34 W. 29th Street, NEW YORK,
Wholesale Florist

Careful Shipping to all parts of the country.
 Price list on application.

HENRY W. BAYLIS,
Wholesale Florist
 940 BROADWAY,
 NEW YORK.

CUT SMILAX.
 From Nov. 1st to May 1st our price for Smilax will be 20 cents per string. Quality first-class. Prompt attention to orders by wire.
 J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

When writing to any of the advertisers on this page mention the AMERICAN FLORIST.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DOX, New York, secretary and treasurer. The eleventh annual meeting at Chicago, August 11 to 16, 1903. Applications for membership should be addressed to Wm. Mezger, chairman membership committee, Wethersfield, Conn.

THE MAIL TRADE in seeds thus far gives but little indication of what trade can be expected the coming season.

ADVICES from Paris report the loss of some 71 packages of seeds for various American houses through the sinking of a barge on the River Thames near London, about January 1st. It is expected that most of the seeds will be replaced, but the delay will be somewhat serious.

The North Carolina Law Void.

Seed shipped from one state to another in original packages becomes an article of interstate commerce. Therefore, a state statute, such as that of North Carolina passed in 1891, providing that persons selling seed in packages unmarked by the date when such seed were grown, except farmers selling seed in open bulk to other farmers or gardeners, shall be guilty of a misdemeanor, is unconstitutional and void under the interstate commerce clause of the constitution with respect to the selling of seed in the original packages imported from another state.

In re Sanders. U. S. Circuit Court, N. Carolina. 52 Fed. Rep. 802.

Catalogues Received.

John Gardiner & Co., Philadelphia, seeds, bulbs and plants; John N. May, Summit, N. J., chrysanthemums and carnations; W. Atlee Burpee & Co., Philadelphia, seeds, etc.; J. A. Simmers, Toronto, Ont., seeds, etc.; J. M. McCullough's Sons., Cincinnati, O., seeds, etc.; The Good & Kesse Co., Springfield, O., plants and seeds; Edward Swayne, Kennett Square, Pa., carnations; Pitcher & Manda, Short Hills, N. J., plants, seeds and bulbs; W. Percy, London, Eng., chrysanthemums; Geo. Haneck, Grand Haven, Mich., carnations; J. Chas. McCullough, Cincinnati, O., seeds; B. H. Hunt, Chicago, seeds; Iowa Seed Co., Des Moines, Ia., seeds; S. L. Allen & Co., Philadelphia, seed drills, cultivators, etc.; Hange & Schmidt, Erfurt, Germany, seeds and plants; Weber & Don, New York, seeds; Nanz & Neuner, Louisville, Ky., seeds, plants and bulbs; T. H. Spaulding, Orange, N. Y., plants; Vick & Hill, Rochester, N. Y., plants; Huntsville Nurseries, Huntsville, Ala., nursery stock; J. S. Judson, Rochester, N. Y., nurserymen's supplies; Jules De Cock, Ledeburg-Ghent, Belgium, plants; R. Douglas & Son, Waukegan, Ill., trees; Zocher & Co., Haarlem, Holland, tuberosus begonias; W. W. Rawson & Co., Boston, seeds; H. Cunnell & Sons, Swanley, Eng., seeds; Wm. Elliott & Sons, New York, seeds; James Vick's Sons, Rochester, N. Y., seeds and plants; Griffith Turner & Co., seeds; O. A. E. Baldwin, Bridgman, Mich., small fruits; Wood Brothers, Fishkill, N. Y., rooted cuttings; New Haven Nurseries, New Haven, Mo., nursery stock; Wm. G. McTear, Princeton, N. J., chrysanthemums.

Mushrooms.

Mr. W. Kirkham, Maywood, Ill., sends us a box of mushrooms, cut from beds under the greenhouse benches. They were of good size and excellent quality. He

GRIFFIN'S UNEQUALLED TUBEROUS BEGONIAS.

Two First-Class Certificates from Society of American Florists, and Certificates of Merit wherever exhibited.

SEED NOW READY, IN SEALED PACKETS ONLY.

SINGLE, 500 Seeds.....	25c. per packet.
SINGLE, 1200 Seeds.....	50c. "
DOUBLE, 500 Seeds.....	50c. "
SWEET-SCENTED HYBRIDS, 250 Seeds.....	50c. "
BAUMANI, 500 Seeds.....	50c. "
FULGENS, 400 Seeds.....	50c. "

Wholesale prices to the trade on application. CASH WITH ORDER.

A. LADENBURG, President.
T. GRIFFIN, Manager.

OASIS NURSERY CO.,
WESTBURY STATION, LONG ISLAND, N. Y.

Mme. Crozy Cannas

WRITE US FOR PRICES.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

Orchids Cheap as Good Roses.

BRACKENRIDGE & CO.,

Established 1854.

Govanstown, Md.

PRICE LIST FREE.

1,000,000 CANE STAKES

VERBENAS
MAMMOTH
BEST SORTS,
CLEAN, HEALTHY,
Stock plants, \$3.00 per 100.

FOR MARCH DELIVERY:

Plants \$2.50 per 100; \$30.00 per 1000
Rooted Cuttings \$1.00 per 100; \$8.00 per 1000
Pelargonium, Fred Donner \$1.00 per 100
Fine stock of P. P. Tea and Forcing Roses.

JOSEPH HEINL, Jacksonville, Illinois.

says: "We are growing them under a center bench of Perle roses with a night temperature of 60°, and also under a center bench of carnations with a temperature of 55° at night. They come very much larger and finer in every way only it takes them longer to develop. In the first named house the spawn was put in November 20, and we began cutting mushrooms the first week in January, or about six weeks afterwards. We aim to cut them in the cup-shape—that is just before they open out flat. Consumers seem to be getting quite fastidious, as they ask for the medium sized ones only, neither the very largest nor the very smallest seeming to be in much demand. Mushroom growers seem to be very much on the increase and the next interesting thing to know, will be where and how to dispose of mushrooms in large quantities. We use the English milltrack spawn. I understand that mushroom parties are a recent fad in Chicago, or parties where three medium sized mushrooms are served on toast to each one present."

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

THE AMERICAN FLORIST and Gardening together to one address for \$1.75. Send orders to the American Florist Co.

BUIST'S
PRIZE MEDAL
ONION SEED
is everywhere celebrated for its Great Purity and Strong Growth. Delivered free to any part of the United States, at \$2.00 per lb., or 10 lbs. for \$17.50.
'Yellow Globe Danvers,'
'Large Red Wethersfield.'
Send for our Garden Guide for 1893. If you use Seeds in Quantity, will make you Special Prices on your order.
ROBERT BUIST
Seed Grower, PHILADELPHIA, PA.

Gladiolus Bulbs.

Selected Stock, 1st Size, \$10 per 1000

This is of superior quality, consisting of a large number of named varieties and seedlings, and mixed together. While many thousands of the least desirable have been destroyed, the best have not been taken out to be sold at a higher price, as I never sell any under name or color.

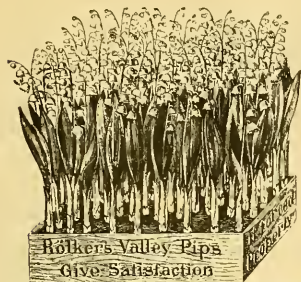
Bulbs one and one-half inches in diameter and upward.

M. CRAWFORD, Cuyahoga Falls, O.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

1—MORE THAN—
1,000,000 TREES
Fruit and Ornamental. SHRUBS, VINES, ROSES, etc. in over 1,000 Varieties. New and Rare. Send for our Illus. Catalogues. Old & Reliable.
W. S. LITTLE & CO. ROCHESTER, N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



BEST GERMAN FORGING PIPS

Price: \$9 the 1000,
\$20 the box of 2500,
Less ten per cent. for prompt cash.

August Rölker & Sons
New York, P. O. Station E.



Saucy Pansies though we be,
We would have you know
That we know a thing or two—
Burpee's seeds will grow.

Burpee's Farm Annual for 1893

is the largest, best and most complete Seed Catalogue published. A handsome book of 172 pages. It tells all about the **Best Seeds, Bulbs and Plants**, including **Rare Novelties of Real Merit**, which can not be had elsewhere. Honest descriptions, hundreds of illustrations, with beautiful colored plates painted from nature. Mailed **Free to intending purchasers**; to others on receipt of ten cents, which is less than the actual cost per copy by the quarter-million edition. *Write to-day.* Burpee's Blue List, giving wholesale prices for Market Gardeners and Florists, will be mailed on application.

W. ATLEE BURPEE & CO.,
Philadelphia, Pa.

HULSEBOSCH BROS., BULB AND PLANT GROWERS, OVERVEEN, near Haarlem, HOLLAND.

Prices on application for the coming season of
ROMAN HYACINTHS. PAPER WHITE NARCISSUS.
LILY of the VALLEY. HARRISII LILIES.
LIL. LONGIFLORUM. TULIPS.
DUTCH HYACINTHS. CROCUS.
SPIRAEAS. ROSES, ETC., ETC.

Spring Catalogue now ready. ADDRESS

A. HULSEBOSCH,
P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

GENUINE CHINESE SACRED LILIES

In original imported baskets of 30 large line bulbs, per basket, \$1.25.
It will pay you big to grow them. Innumerable flowers can be cut from them. Make money, buy some, *now*.

H. G. FAUST & CO.,
64 & 66 N. Front St., PHILADELPHIA, Pa.
Woodlawn Seed Farm, Philadelphia, Pa., 1300 acres.

CHEAP TO MAKE ROOM.

French Canus, dormant roots of fine sorts, \$3.00 per 100; \$15.00 per 1000.
Canna Flaccida, \$2.00 per 100.
Nymphaea Flava, \$1.50 per dozen; \$10.00 per 100.
Nymphaea speciosa, 1 year seedling, white and red, double and single mixed, \$3.00 per dozen.

MISS LIZZIE FREEMAN,
1203 East Avenue, AUSTIN, TEXAS.

FLOWER SEED FOR COUNTER TRADE IN LITHOGRAPHED PACKETS.



Cut herewith is a photo-engraving of our elegant blue covered seed box, holding 100 packets. Price of seeds, \$2.00 per 100, box included, sent free by mail.

ORDER A SAMPLE BOX. We will make up an assortment of leading varieties and you can order more of any kind and in any quantity desired, and we will send them free by mail at rate of \$2.00 per 100.

ELLIOTT'S TRADE PRICE LIST for 1893 is now ready. It has been revised, enlarged and re-arranged and is "up to date." It contains the most comprehensive list of Flower and Vegetable seeds, Flowering Bulbs, Garden Implements and Sundries offered in the trade, and is so arranged that you can find what you want.

SEND FOR IT.

WILLIAM ELLIOTT & SONS,
Growers, Importers and Jobbers,
54 & 56 DEY ST., NEW YORK.

Established 1845.

When writing mention The American Florist.

WE SELL SEEDS

TO FLORISTS AND DEALERS.

WEEBER & DON,

SEED MERCHANTS AND GROWERS.

114 Chambers St., New York.

Catalogues on Application.

1893.



1893.

We Are The Only Firm

Giving to customers cash discounts on orders. We alone catalogue that best of all bush beans, the Warren, and that best of all early peas, the Excelsior. No other Seed Catalogue, of America or Europe, contains so great a variety of several of the standard vegetables, and, in addition, are many choice varieties peculiarly our own. Though greatly enlarged in both the vegetable and flower seed departments, we send our catalogue **FREE** to all. The three warrants still hold good, and our customers may rely upon it, that the well earned reputation of our seed for freshness and purity will continue to be regarded as a most precious part of our capital. J. J. H. GREGORY & SON, Marblehead, Mass.

Rooted Cuttings

of Evergreens, Hardy Flowering Shrubs and Hardy Perennials (Achillea, Iberis, etc.) raised on contract for spring delivery. SEND LIST OF WANTS.

ISAAC C. ROGERS, MOORESTOWN, N. J.

G. J. MOFFATT, Manufacturer of PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.
Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

BENJAMIN RIMBAUD, BULB GROWER.

Quartier du Temple, Toulon, var., France.

Cable address Benrimbaud, Toulon.

The latest cultures in the South of France, of **WHITE ROMAN HYACINTHS**, Narcissus Paper White grandiflora, N. Double Roman, N. Double Von Sion, true pure yellow, and other Double Lilies, **Lilium Candidum**, the largest bulbs. Frezins, Jonquilla Campanelli, largest flowering, for early forcing, Allium, Aneumone, Cardinal's Hat, A. Double Rosette the earliest, etc. Prices on application.

Always mention The American Florist when writing to advertisers.

Baltimore.

Considering the very extraordinary severity of the weather surprisingly few accidents to houses or heaters are reported, though all admit it to have been a hard drive, and, no doubt, every one had some trouble. It would be interesting if possible to get a report from each member of the trade, now while events are fresh in his mind, as to what heating apparatus gave the best satisfaction, during the cold snap.

At the club meeting Mr. Julius Tischenger exhibited fine blooms of Climbing Perle and Climbing Niphetos roses; also carnations Portia, Hinz's White and Puritan.

After ordering the payment of assessment No. 3 to the heirs of the late Mr. Anthony Cook Jr., and discussing some points in the by-laws, the question-box was opened and the following questions were considered.

What is the best way of tying carnations grown on benches to keep from damping off. Mr. Akehurst did not tie each plant but stretched strings across the beds from stakes on each side. Mr. C. Hess used pieces of 2-inch wire net bent in an arch between the rows so as to form an arch or tunnel of the net, over which the carnations grew.

How do Messrs. Akehurst & Sons grow such long stemmed carnations? Mr. Akehurst promised to answer at the next meeting.

Are enough flowers grown in Maryland to supply the Baltimore market? Mr. McRoberts thought decidedly not. The large sums of money sent to Philadelphia and New York every year, and the opinions of the dealers in the city as to the uncertainty of getting large orders filled, seemed to indicate a short supply. He also wished to differ from those who proposed specialties as a remedy, as the firms who a few years ago engaged in specialties over the land had apparently taken up a more varied stock and did not put all their eggs in one basket now.

Do callas pay better in pots or planted out? Most of the members thought pots, but Mr. Richard Vincent's returns of 500 dozen blooms from 500 callas planted out was confessed unequalled. MACK.

B.—In reply to your query Jas. G. Hancock is the son of Geo. Hancock, and is manager of the entire floral department of the business conducted under the latter's name.

Azalea Indica

In bud or bloom, from 75c. to \$1.50 each.

CHINESE PRIMROSES,

4 and 5-inch pots, \$8.00 to \$15.00 per 100.

WM. A. BOCK, North Cambridge, Mass.
Mention American Florist.

CHRYSANTHEMUMS.

ROOTED CUTTINGS.

Libella, Ada Spaulding, Dondition, L. Boehmer, Robinson and 20 other good market sorts, \$1.50 per 100; Jessica and Ivory, \$2.50 per 100. Ready for delivery January 15th.

Address J. G. BURROW,
FISHKILL, N. Y.

SEND FOR A COPY
— OF OUR —

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO.

BULBS AND TUBERS.



Tuberous Rooted Begonias, Fancy Leaved
Caladiums, Crassifolia Gloxinias,
Double, Single and Cactus Dahlias.



We offer the following bulbs, largely grown by ourselves, extra fine stocks and first-class in every way. Desirable and salable varieties to be offered in retail circulars and catalogues.

AMARYLLIS Formosissima	Per doz.	Per 100
Johnsoni	8.00	87.00
Vittata	4.00	30.00
	2.50	20.00
	1.00	10.00
	6.00	50.00
BEGONIAS, Tuberous Rooted, Finest mixed	Singles	1.50
" " " " " Double	"	1.50
" " " " " Single, Scarlet, Crimson, Yellow, White,	"	1.00
" " " " " Orange and Pink	"	7.00
DAHLIAS Pompones, Show Cactus, and	Single varieties in fifty finest named sorts, strong	1.50
grouned roots	"	12.00
DIELYTRA SPECTABILIS, strong clumps	"	1.00
"	"	6.00
GLOXINIA CRASSIFOLIA in the finest mixture, extra selected bulbs	"	1.50
"	"	12.00
"	"	1.00
"	"	10.00
"	"	1.50
"	"	8.00
"	"	15.00
CALADIUMS, fancy leaved varieties in thirty distinct named sorts	"	2.00
"	"	4.00
IPOMEEA PANDURATA	"	.50
"	"	4.00
TIGRIDIAS Conchifolia	"	.50
"	"	3.00
Grandiflora	"	.50
"	"	3.00
Alba	"	.50
"	"	3.00

Orders booked now and reserved until weather moderates or shipment requested.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

CARNATIONS!

Study my WHOLESALE LIST of Rooted Cuttings
... before ordering. ...

F. M. PENNOCK,

Bloomfield.

Charles Town, Jefferson Co., W. Va.

CARNATIONS

ROOTED CUTTINGS.

Puritan, Aurora, Golden Triumph, Grace
Darling, Daybrook, Pearl, White Wings,
Lizzie McGowan, Louise Porsch, W.

F. Dreer, J. R. Freeman,
and many other varieties; fine, healthy stock, ready
January and after.

HYBRID PERPETUAL ROSES

500 Paul Neyron, strong plants, ... \$10.00 per 100.
20 other leading varieties, ... \$10.00 per 100.
\$20.00 per 1000.

Send for price list.

WOOD BROTHERS,
FISHKILL, N. Y.

"CHRY-SOLA"

COLEUS, best Varieties, best
Stock, now ready.

SEND FOR PRICE LIST

FUCHSIAS,
GERANIUMS AND
CHRYSANTHEMUMS

are ordered to Feb. 15th, with the excep-
tion of a few varieties.

I am now booking orders for delivery
after above date.

S. B. FIELD, Roselle, N. J.

75,000 IPOMEEA PANDURATA

(Day-Blooming Moonflower.)
ROOTS FRESH AND SOUND, per 100 \$2.50; 50 at 10
rate. Per 1000 \$20; 500 at 1000 rate.
Orders booked and shipped when desired.
Orders booked for "ACHILLEA 'The Pearl'",
at \$25.00 per 1000.

JAMES FROST, Greenville, Darke Co., O.

Mention the American Florist when
writing to advertisers on this page.

WE WANT THE FOLLOWING:

Fuchsias Suray, Lemon Verbenas,
Amaryllis Vittata, Amaryllis Formosissima
Regina, Belchidoma,
Anthemis Coronaria, Othonna,
Veronica Blue Gem, Salvia officinalis trilobol
Madera Vine, Geranium Mrs. Pollock,
Geranium Mountain of Snow.

If you are able to supply any of the above please
quote prices, state size and quantity
you can offer.

L. L. MAY & CO.,

ST. PAUL, MINN.

New Chrysanthemums.

IRMA—Silver Medal and \$50 premium at Cin-
cinnati; also National Certificate; it is among
the Pink Chrysanthemums what Mrs. L. C.
Madera is among the Yellow.

ERST RIEMAN—Mahogany Red, Certificate
BYSUM SCHILTES—Dark Red, Certificate
Above three varieties Strong Plants by mail
\$2.50. Send for Chrysanthemum List.

H. W. RIEMAN,

Cor. East and Morris Sts. INDIANAPOLIS, IND.

ROOTED CUTTINGS of CARNATIONS
By the Wholesale.

Ready now. This is the best time for
intending buyers to supply themselves. I
offer them at moderate prices. Send for
Price List. Address

JOSEPH RENARO, Unionville, Chester Co., Pa.

VIOLETS.

MARIE LOUISE RUNNERS

Healthy Stock. Good Plants.

ANDREW WASHBURN,

P. O. Box 1125. BLOOMINGTON, ILL.

When writing to any of the adver-
tisers on this page please mention the
American Florist.

NOW
IS THE
TIME

TO BUY Carnations!

You want the BEST. We will give you the BEST ROOTED CUTTINGS to be had, if we get your order.

A postal card, with your address, costs one cent, will bring our TRADE LIST, the neatest of the year. It tells you all about the newest and best varieties. It tells the truth, and it's the truth that tells.

We also have COLEUS when you need them. You will certainly want our new yellow coleus.

ALEX. MCBRIDE,

ALPLAUS, N. Y.

W. R. SHELMIER,
Carnation Grower
AVONDALE, CHESTER CO., PA.

Send for price list of Rooted Cuttings.

CARNATIONS
ROOTED CUTTINGS

of all the leading varieties. Will be ready
January 1, 1893.

R. T. LOMBAUD, Wayland, Mass.

CARNATIONS
ROOTED CUTTINGS.

Send for Price List of all the leading
varieties.

WM. SWAYNE,
P. O. Box 226, KENNETT SQUARE, Chester Co., Pa.

ROOTED CUTTINGS

Of the Best Old and Most Promising new
varieties of

CARNATIONS.

Write for a catalogue and send list of
wants for an estimate.

J. J. Styer,

CONCORDVILLE, PA.

ROOTED CARNATION CUTTINGS.

NOW READY.

Of the best old and new varieties now in
cultivation, in small or large quantities.
Send for estimate of wants or price list.

ISAAC LARKIN, Toughkenamon, Pa.

YES!

This is the place and now is the time for you
to buy your Carnation Cuttings

Lizzie McGowan, Garfield, Hinz's White, Silver
Spray, Mrs. Fisher, Portia and Lamborn at \$1.00 per
100; \$2.00 per 1000.

Tidal Wave, Fred. Creighton, Ferdinand Mangold,
Mrs. F. Mangold and Nellie Lewis at \$1.50 per 100;
White Dove, \$2.00 per 100. Send cash with order.

E. B. LEWIS, Lockport, N. Y.

ORDERS BOOKED NOW FOR MY SPECIALTIES FOR 1893.

New Jersey.—A scarlet Carnation hard
to heat.....\$12.00 per 100
Old Rose.—Old rose pink Carnation.
.....\$12.00 per 100

Nellie Bowden.—Pure bright yellow
Canna.....\$60.00 per 100
READY IN FEBRUARY.

Other varieties of Carnations, both old and new.

JOHN MCGOWAN, Orange, N. J.

THE NEW WHITE CARNATION

GOV. RUSSELL

Will be Distributed Feb. 15, 1893.

Price of Rooted Cuttings: Per 1000, \$80; 500 at 1000 rate; per 100, \$10; 25 or less, \$2 per doz.

ORDERS WILL BE FILLED STRICTLY IN ROTATION.

FOR SALE BY

N. F. MCCARTHY & CO., 1 Music Hall Place, Boston, Mass.

C. J. PENNOCK, Kennett Square, Pa.

and E. H. HUNT, 79 Lake Street, Chicago.

ROOTED CUTTINGS.

CARNATIONS.

Send for list.

GOOD STOCK. GOOD CUTTINGS. GOOD VARIETIES.

Big lot of LIZZIE MCGOWAN now ready, at a bargain.

FRENCH CANNA. A splendid assortment at \$4.50 per 100; \$36.00 per
1000; good strong roots. Cash with order. Correspondence Solicited. Inspection Invited.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

SEE OUR PRICE LIST

in special carnation number of Jan. 19th, or address

EDW. SWAYNE, Carnationist,

..... Kennett Square, Pa.

Rooted Carnation Cuttings.

WHOLESALE PRICE LIST NOW READY,

Containing a full list of best new and old sorts, including the Prize takers at
MADISON SQUARE and PHILADELPHIA.

Address **H. E. CHITTY, Paterson, N. J.**

GRACE BATTLES

and over 60 other varieties of

CARNATIONS

offered the Wholesale Trade.

My list embraces the best Standard and New kinds,
including some of particular interest to growers of
seedlings. Correspondence and personal inspection
solicited.

C. J. PENNOCK,
The Pines, Kennett Square, Chester Co. Pa.

ALWAYS mention the AMERICAN FLORIST
when writing to advertisers.

**ORANGE BLOSSOM
CARNATION.**

One of the leading new varieties, and an im-
mense bloomer; received a Certificate of Merit in
1891; color Pink, Edged White.

Rooted Cuttings, \$3.00 per
100; \$25.00 per 1000.

MAY FLOWER, splendid variegated, \$2.50 per 100.

THE JENNINGS STRAIN OF PANSIES, trade packet,
200 seeds, \$1.00. Fine, stocky plants, small, 60c.
per 100 by mail; \$5.00 per 1000 by express.

E. B. JENNINGS,

Lock Box 254.

SOUTHPORT, CONN.

CARNATIONS * AHEAD.

You want the best in the market! We have them, 16 Novelties of '93, and all the STANDARD
VARIETIES! Send for our complete Price List.

GEORGE HANCOCK, Grand Haven, Mich.

Rooted Cuttings.

Carnations Hinze's White, Mrs. Fisher, Silver Spray, Jeannette, Grace Wilder, Fred Creighton, Mayflower, Century, Anna Webb, \$1.50 per 100; \$10 per 1000.

Orange Blossom, Portia, Hector, Florence, American Flag, \$2 per 100; \$15 per 1000.

Coleus, leading varieties, including the finest Yellow Coleus in cultivation. A new variety equal to Golden Bedder in color, and as good a grower as C. Verschaffeltii.

Double Petunias in four finest varieties, \$2.00 per 100.

Fuchsias, finest named varieties, \$1 50 per 100.

Heliotrope \$1.00 per 100.

Ageratum, Dwarf, White and Blue, \$1.00 per 100.

500 at 1000 rates. Cash with order. 10 cents per 100 extra when shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.

CLEMATIS.

Extra strong, strictly select stock, 4 years old; per dozen, \$4.80; per 100, \$38.00.

JACKMANNI, **LUCY LEROINE,**
HENRY, **JOHN GOULO VEITCH,**
MISS BATEMAN, **SIEBOLDI (Patent Hybrid),**
LANUGINOSA CANDIDA, **STANDISHI,**
LANSONIANA, **RUBELLA.**

H. P. ROSES.

Strong plants, 2 years old, budded, \$11.00 per \$100; per 1000. In order to enable you to pick your own variety send us your list at once. We have all the leading sorts to offer.

TREE ROSES.

In assortment, prime stock, \$7.50 per doz.; \$60 per 100.

FLOWER SEEDS.

Assortment complete. Send your order at once and have it filled by return mail.

W. W. BARNARD & CO ,

Bulk and Seed Merchants,

6 and 8 North Clark Street, CHICAGO

Storage House 186 E. Kinzie Street.

Are You a Fruit or Flower Raiser ? For Market or Pleasure—

If so, send for our Circular on Fungicides and Insecticides, which are cheap and reliable. Agents in every State. **Special Fertilizers** for Fruits, Flowers and Vegetables. Agricultural Chemicals.

W. S. POWELL & CO.,

Chemical Fertilizer Manufacturers, Baltimore, Md.

S. F. LEONARD, Seedsman, Agent,

Chicago, Ill.

SPECIAL BARGAIN IN

Japanese Bulbs, Seeds, Shrubs,
ARAUCARIAS, CYCAS, ETC.

Send for Catalogue.

FELIX GONZALEZ & CO.,

Nursery and Greenhouses: 303 to 312 Wayne St.,

SAN FRANCISCO, C. L.

Tuberous Begonias.

PER HUNDRED \$6.00, SINGLE.

Young plants of different strains, double and single, in April, will bloom July 1st. Get them in April or early in May, there is a right time for everything.

BRAUER & RICHTER,

MCCONNELLSVILLE, O.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard, Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

This Noblest of All Reeds,

"Arundo Donax,"



with its graceful tropical foliage, is the hardiest and most useful of the bamboo-like plants, and is particularly beautiful and effective when planted in an isolated position on the lawn or on the margin of a lake or stream. Last year the canes of this plant, with us, attained the

Height of 18 Feet.

Clumps, \$3.00 per doz.

" 20.00 " 100.

ANDORRA

NURSERIES,

WM. WARNER HARPER, MANAGER.

Chestnut Hill, Philadelphia, Pa.

Dreer's Double Petunias.

We offer a splendid lot in fifteen varieties of the best market sorts. The set is composed of the finest double fringed sorts, and equal to any ever sent out. Strong stock plants from 3-inch pots. \$1.25 per doz; \$1.50 for set, or \$10 per 100 all named.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2 50 per 100; \$20 00 per 1000 Rooted Cuttings, \$1 00 per 100; \$8 00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

Our sales reached nearly 250,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

Rooted Cuttings.

Carnations, New Scarlet, Emily Per 100

Pierson..... \$3 00

Leading varieties..... 1 25

Violets, Russian and Neapolitan

Coleus and Alternantheras in var.

A. N. PIERSON, Cromwell, Conn.

Chrysanthemums.

Stock plants, large clumps, one hundred best varieties, 15 to 25 cts. each.

ROOTED CUTTINGS. . . .

SEND FOR LIST.

FOSTITE.

A successful remedy against MILDEW and RUST on Plants. Price, per 25 pounds, \$2.00.

JOOSTEN'S MAGAZINE BELLOWS. The best Powder Distributor. Price, \$3.50.

Sold by leading dealers, and by

C. H. JOOSTEN, 3 Coenties Slip, New York.

New and Rare Plants ORCHIDS, ETC.

A large collection of Hothouse and Green-house Plants, carefully grown at low rates. A collection of the most beautiful *Fancy Caladiums* ever offered. *Pelargoniums*, Etc. *Peonies*—All the finest old and new.

Orchids—A very extensive stock: East Indian, Mexican, Central and South American. Etc. *Hardy Perennials*, *Roses*, *Clematis*, *Palms*, Etc. *New and Standard Fruits*: rare and beautiful Trees and Shrubs, Evergreens, Etc.

CATALOGUES ON APPLICATION.

JOHN SAUL, Washington, D. C.

NOVELTY FOR 1893!

Variegated Hop.

(ROEMER'S.)

Most ornamental and fast growing Climber. Descriptive list, as well as of other EXTRA CHOICE FLOWER SEEDS free on application.

FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY

Mushrooms at the World's Fair.

We read with interest the note regarding the mushroom bed at the World's Fair, in your issue of January 5th. Mr. Thorpe writes us in this connection under date of December 14th as follows:

"The mushroom spawn you kindly sent to the Department of Horticulture of the World's Columbian Exposition in September for trial was duly received and cared for. The size of the bed where the test is made is 10 feet by 20 feet. The bed was made late in September and spawned on the 1st of October. Mushrooms were gathered in quantity at the end of five weeks, and at this date there is from 75 to 100 mushrooms (as good as the sample sent to you) to the square foot. I desire to say that this mushroom bed is the best that I have ever seen. Besides I want you to know that it was made of ordinary horse manure; there was neither mystery nor imagination in its construction. It was simply a rough and tumble packing together of the material I had at command because I have not time for anything but rush work. You can weigh the mushroom I send you and I know that they will surprise you as they have me. Your spawn is unexcelled and the best results I have yet had are from it."

You will note from the above that mushrooms were gathered in five weeks from the time of spawning the beds, and that was under ordinary treatment.

A still more remarkable instance came to our notice last week. Mr. John G. Gardner of Jobstown, N. J., informed us that he had gathered mushrooms this winter on his place at Conshohocken, Pa., in three weeks from time the beds were spawned. This last is the quickest on record so far as we know. Can any florist come that one better? JOHN GARDNER & Co.

Magnolias.

IN VARIETY.

Cydonia Japonica.

ALL SIZES FOR HEDGING BY THE 1000.

Eulalias.

4 VARIETIES.

Send for wholesale price list of all kinds of hardy ornamental stock.

SAMUEL C. MOON,
Bucks County, MORRISVILLE, PA.
Mention American Florist.

Association "Flora"

BOSKOOP, HOLLAND.

Now on hand in New York:
CLEMATIS, 3 Years, per 100, \$30.00
T. ROSEN, for forcing, 9,000
In the best variety, as Alfred Colomb, Anna de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luzeit, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Merville de Lyon, Perle des Blanchés, Ulrich Brunner and other sorts. Azaleas, Rhododendrons, Spiræas, etc. We also have Palms, Dracænas, Aracæas and Bay Trees at our nurseries in Holland. Catalogue on application.
P. OUWERKERK, 206 Cambridge Ave.,
JERSEY CITY, N. J.



TRY DREER'S GARDEN SEEDS
Plants, Bulbs, and Requisites. They are the best at the lowest prices. PRIZE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia

VICK'S NEW WHITE BRANCHING ASTER

FAVORITE of the FLORISTS. We have the pleasure of offering the florists a flower having very valuable characteristics. The plant is a strong grower and forms many branches, grows later in season than any other variety, and blooms correspondingly late. Flowers are borne on **LONG STEMS**, pure white and 4 inches or more in diameter. Petals broad, long and many more or less twisted, giving the appearance of a graceful **Chrysanthemum**, which it resembles so nearly that but few can notice the difference. They flower from four to six weeks earlier than the Chrysanthemums. **Price, per packet, 25 cents.**

I saw the new White Branching Aster in bloom last fall. You cannot praise it too much. Please send me four packets seeds.
ROCHESTER, January 13, '06.
F. J. KELDER, Florist.

Where requested each purchaser will receive FREE a copy of THE POETS' NUMBER

VICK'S FLORAL GUIDE.

For 1893 we have combined a most novel and charming feature in the way of hundreds of beautiful and appropriate poetical quotations from the best authors, making THE POETS' NUMBER of VICK'S FLORAL GUIDE a source of interest and pleasure the whole year. The practical part contains Colored Plates of Alpine Aster, Begonia, Dutchman's Pipe, Clematis, Pansies, Cannas, Corn and Potatoes, hundreds of engravings; descriptions of the sweetest and most prolific Pen—The Chamer, The Golden Nugget Corn, which was such a favorite last summer, new Roses, new Chrysanthemums, and scores of other grand and good things. Names and prices of everything one could desire in way of Flowers, Vegetables, Plants, Bulbs, etc., sent for only 10 cents, which can be deducted from the first order.

\$2,000 IN CASH PRIZES.

Special List for Florists and Market Gardeners mailed on application.

JAMES VICK'S SONS, 541 East Ave. Rochester, N. Y.

SHADE TREES.

For Streets, Parks and Lawns.

50,000 Carolina Poplars, 10,000 Lombardy & VanGerts, 30,000 Silver Maples, 10,000 Ash Leaf Maples, 10,000 Sugars and Norways
Ems, Lindens, Planes, &c. Fruit and Nut Trees,
Small Fruits. Catalogue Free.

WM. PARRY, - PARRY, N. J.

C. C. Abel & Company

P. O. Box 920, NEW YORK,

FLORIST'S, NURSERYMEN'S AND SEEDS-MEN'S AGENTS,

—For the following—

WELL KNOWN AND RELIABLE HOUSES,

For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedman, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen,issy, France. Roses, Evergreens, Fruit and Forest stocks.

ERNST IHMSCHNEIDER, Florist and Seedman, Altona, Germany. Berlin Lily of the Valley a specialty.

EDM. VAN COPPENOLLE, Nurseryman, Ghent, Belgium. Established 1850. Large culture of Arnicarlas, Azaleas, Indica and Mollis. Bay Trees, Begonias, Gloxinias, Palms, Rhododendrons, etc., etc.

ALPHONSE ROCHE, Orléans, France. Extensive and special plantation of Immortelles and dried in all colors and shades.

ERNEST IHMSCHNEIDER, Florist and Seedman, Altona, Germany. Choice selections of German Flower Seeds. Also of Palms, Grass and Garden Seeds. Best Sugar Beet Seeds a specialty.

Catalogues (mention which) free on application when received for distribution. All orders for these houses should be plainly written and addressed to us.

Mention American Florist.

No Trees of 1st quality can ever be sent by mail. Mayhap you know it. By freight, prepaid if preferred, we ship safely 4, 5, or 6 ft. trees; 2-y. Roses of rare excellence—everything! You actually pay less than for the puny stuff. 1,000 acres Nurseries. 20,000 acres Orchards. Exact information about trees and fruits. Stark Bros., Louisiana, Mo.

CANNAS CHRYSTANTHEMUMS

The best only. Seed of either, 25 cts. per packet. Give us your order.

T. H. SPAULDING, Orange, N. J.
Mention American Florist.

We are the People!

Who? **KOFFMAN,**Where? **WALDEN,**
Orange Co., N. Y.What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? **ALL THE YEAR AROUND.**

Also Adiantum Cuneatum Fronds

At \$1.25 per 100.

And he pays the Express.

Plant Ferry's Seeds

and reap a rich harvest. They are always reliable, always in demand, always the best
FERRY'S SEED ANNUAL
For 1893 is invaluable to every Planter. It is an encyclopaedia of the latest farming information from the highest authorities.
Mailed Free.
D. M. FERRY & CO. DETROIT, Mich.

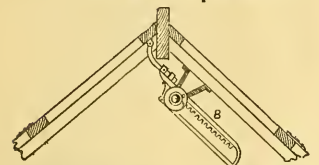
CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

SEE WHAT THE FLORISTS SAY ABOUT

The "New Departure."



DARIEN, N. Y., Nov. 18, 1892.

J. D. CARMODY,
Dear Sir:—The Ventilating Machine has arrived and has been put in position, and works fine. We like it the best of anything we have used or seen. Please send us three or four more order sheets, for as fast as old houses are repaired or new ones built we want your "MEAT SAWS."

Some new houses will be built here next year and we will see to it that you get the order for Ventilating Machines. They are a long way ahead of the old style. Very truly yours,
 HARMON & BURR.

A FEW MORE LEFT OF THE SAME SORT.
 Send for a Treatise on Ventilation and Descriptive Catalogue.

J. D. CARMODY,
 EVANSVILLE, IND.

LITTLE'S ANTIPEST.

A

Valuable Discovery of the 19th Century.
 SILVER MEDAL AWARDED

— BY THE —
 CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.
R. W. CARMAN, General Agent,
 291 AMITY STREET,
 FLUSHING, Queens, Co., N. Y.

CUTS!

Wood Engraving,
 Zinc Etching,
 Half-Tone,
 Wax Engraving, Photo-Engraving.
 Designing.

MANZ & CO.,
 183 Monroe Street,
 CHICAGO. ENGRAVERS.

U. S. AND FOREIGN Trade Marks, Designs, Opinions, Searches, &c., promptly attended to. Send sketch or model for free examination as to patentability. All work strictly confidential.

GEO. H. CHANDLEE,
 Atlantic Building, WASHINGTON D.
 Mention American Florist

Mention the American Florist when writing to advertisers on this page.

STOTT'S KILLMRIGHT

SYSTEM OF PRAYING

KILLS, INSECTS AND

AVES MILDEW

PLANTS-FLOWERS-FRUITS.

STOTT'S DISTRIUTER
 CHARGED WITH KILLMRIGHT, CONNECTED WITH FAUCET READY FOR USE WORKS EQUALLY WELL WITH A GARDEN ENGINE.

STOTT'S PRAYER
 END FOR

STOTT'S SYRINGE
 CELL "A" CONTAINS THE KILLMRIGHT

CIRCULAR AND TESTIMONIALS.
 STOTT GARDEN IMPLEMENT COMPANY
 136 LIBERTY ST. NEW YORK.

GARDENERS HOT-BED SASH.
INDESTRUCTIBLE.
 CYPRESS GREENHOUSE WOOD
 WORK OF ALL KINDS.
 Write for prices.
THE PEIRCE & COLEMAN CO.,
 Dayton, Ohio.

J. C. VAUGHAN, Agent for Chicago and New York.

W. C. KRICK'S
 PATENT
 Florists' Letters, Etc.
 Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

3-inch Letters, \$3.00 per 100.
 Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
 Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAY ERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; A. G. ROBERT & SONS, N. Y.; E. S. SCHMIDT, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMONS, Toronto, Ont.

THE STANDARD Ventilating

Machines

Received best awards at
 BUFFALO, N. Y.,
 BOSTON, MASS.,
 TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,
 Youngstown, O.



Mention American Florist.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.
 Address all correspondence to 1 Music Hall Place.
 Manufacture THE BEST LETTERS IN THE MARKET.
 Sizes 1 1/4-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.
 With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letters is handled by all the wholesalers in Boston.
 AGENTS: Marchbanks & Co., 25 N. 4th St., Philadelphia, Pa.; A. Holker & Sons, New York; F. E. McAllister, 23 De St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; G. A. Knehn, St. Louis.
 J. A. Simmers, Toronto, Ont., Agt. for Canada.
 Mention American Florist.

PLANT BED CLOTH.

CHEAP SUBSTITUTE FOR GLASS ON Hot-beds, Cold Frames, etc. Three grades.

Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from Frost. Promotes, hardy, vigorous growth and keeps beds warm; will not shrink or mildew. For sale by the leading Dry Goods houses, seedsmen, Florists, etc. Well known and extensively used. For circulars and samples apply

NATIONAL WATERPROOF FIBRE CO.,
 50 South Street, NEW YORK.
 Agents Wanted.

Wrought Iron
 Pipe,
 Fittings,
 Valves,
 ETC.
 78 JOHN ST., NEW YORK.
WELLS & GOUTAN CO., Ltd.
 Mention American Florist.

Overhead System in Steam Heating.

We recently received a box of Brides and Mermets from the Anchorage Rose Co., of Anchorage, Ky., which certainly spoke strongly in favor of this heating system. The roses were not only large and firm, but the color of the Mermets was the clear bright pink we so seldom see during dark weather, such as has been prevalent lately, and the Brides were unusually good. Mr. Rayner writes as follows:

"After passing what may be called a most exceptional and severe season, more on account of the long continued cloudy weather than the extreme cold, although both have been unusual, we have given a thorough test to our overhead steam system. As to the result to roses I send you a sample of Mermets and Brides for criticism. Rose houses are 30x200 feet, 10 feet apart, connected by a center vestibule through which main steam flow and return run, branching off at right angles into 1-inch coils, all coils being controlled by XL valves in vestibule. The flows rise to roof, fastened to wall plates, purlins and header, so they are hardly noticed, returning immediately under benches. There are seven coils to each house, that is seven flows and seven returns, five being the most we have ever had to use together at one time, when the lowest outside temperature registered 18° below zero. We find the benches dry out very quickly, taking almost as much water as in summer. The roses keep in most vigorous health, bearing profusely; mildew and black spot are hardly known. The foliage dries off very quickly after a heavy syringe, even if caught by cloudy weather, and as we can use it safely on almost a promise of a fine day we can keep down red spider."

Please mention the AMERICAN FLORIST every time you write to an advertiser.

THE BEST POTS.

THE CHEAPEST.

THE LOWEST FREIGHT RATES.

THE BEST OF PACKING.

THE LARGEST POTTERY IN THE STATE FOR MAKING STANDARD FLOWER POTS.

PRICE LIST OF POTS.

	Per 1000		Per 100
2 Inch	\$ 3.25	6 Inch.....	\$ 2.20
2 1/2 "	3.50	7 "	3.50
3 "	4.00	8 "	5.00
3 1/2 "	5.00	9 "	7.50
4 "	7.25	10 "	10.00
4 1/2 "	9.00	11 "	15.00
5 "	15.00	12 "	20.00

Terms: Cash, free on board cars here. Address

HILFINGER BROS., Potters

FORT EDWARD, N. Y.



**Spray
your
Fruit
Trees
and
Vines**

Wormy Fruit and Leaf Blight of Apples, Pears, Cherries and Plums prevented; also Grape and Potato Rot—by spraying with **Stahl's Double Acting Excession Spraying Outfit**. Best in the market. Thousands in use. Catalogue, describing all insects injurious to fruit, mailed Free. Address **WM. STAHL, QUINCY, ILL.**

When writing to any of the advertisers on this page please mention the American Florist.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.

Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS.

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPPLE, DOPFFEL & CO., SYRACUSE, N. Y.

NEW BRIGHTON POTTERY,

Manufacturing the

ELVERSON, SHERWOOD & BARKER

STANDARD FLOWER POTS.

Write for an illustrated catalogue and price list of Pots, Lawn Vases, Hanging Baskets, Bud Pots, etc.

ADDRESS **PITTSBURGH GLAY MF'G CO., New Brighton, Pa.**

STANDARD FLOWER POTS

Best in the Market.

D. C. SCHOFIELD & CO., - NEW BRIGHTON, PA.

- - WRITE FOR PRICES. - -

J. E. JEFFORDS & CO.,

OFFICE: 2715 Edgemont Street, PHILADELPHIA, PA.,

MANUFACTURERS OF

DECORATED AND PLAIN JARDINIÈRES.

A Large line of Colors and Decorations.

SEND FOR PRICE LIST AND ILLUSTRATIONS.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

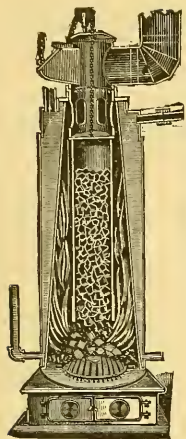
Write for latest prices.

MAIL

LOCK THE DOOR BEFORE
THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.
Mention American Florist.

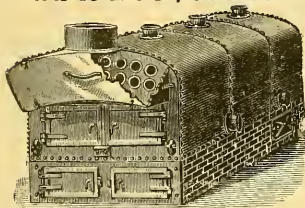
Please mention the American Florist every time you write any of the advertisers on this page.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.,
Manufactured **THE S. WILKS MFG CO. CHICAGO, ILL.**
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED

Greenhouse x Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, girths, sheets and heads of steel, water space all around (front, sides and back). Write for information.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.
Itemized Estimates given, and cost of freight guaran eed.

CORRESPONDENCE SOLICITED.

Clear Cypress,

from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

Mention American Florist

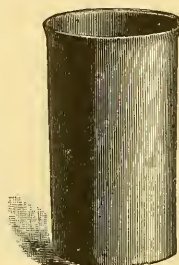
YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented, for either high or low greenhouses. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport St., BOSTON, MASS.

CUT FLOWER VASES

Great Reduction in Prices.



On and after this date (Feb. 2, '93) the following schedule of prices are in force:

No.	Each.	Dozen.
0-8 in. diam. by 13 in. deep,	.40	\$4.00
1-5 1/2 in. diam. by 10 in. deep,	.35	3.50
2-4 1/2 in. diam. by 9 in. deep,	.30	3.00
3-4 in. diam. by 6 in. deep,	.25	2.50
4-3 in. diam. by 4 1/2 in. deep,	.20	2.00

The above quotations cancel the prices in our trade list at page 45. Kindly make note of same on the catalogue sent you, as we will not issue a new list for some little time. These vases have the appearance of polished mahogany; they are neat, attractive and durable, and at the low figures now prevailing **Exceedingly Cheap.** They will consequently be more popular than ever. Please note that we offer them **AT FACTORY PRICES.**

JOHN GARDINER & CO., Seedsmen, PHILADELPHIA.

C. Hennecke Co.

MILWAUKEE, WISCONSIN,

MANUFACTURERS OF

Standard Greenhouse Pots,

WIRE DESIGNS, LAWN VASES, ETC.

The superiority of our goods is acknowledged by all that have used them.

WRITE FOR OUR NEW CATALOGUE AND DISCOUNT SHEET.

NEPONSET FLOWER POTS

of Waterproof Paper, light, durable, unbreakable and cheap



DID YOU EVER try to ship Ferns or other plants in these pots, and notice the saving in packing and freight, and the nice and clean condition in which plants and pots arrive ready for immediate retail handling? all without any risk of breakage! If not, try it and be convinced.

FOR DECORATING walls and other flat surfaces with Ferns or other small plants, for filling large flat baskets, no better, lighter and safer plant receptacle can be used than these pots, leaving the plants absolutely unharmed after use. Try it and be convinced.

For Price List and further particulars address

Wholesale Agents:
AUGUST ROLKER & SONS, Station E, New York.
R. & J. FARQUHAR, Boston, Mass

Who furnish samples, by mail, postpaid, on receipt of

10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
2 1/4 in.	2 3/4 in.	3 in.	3 3/4 in.	4 in.	5 in.	6 in. pots.

F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.

Always mention the **AMERICAN FLORIST** when writing to advertisers

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

Index to Advertisers.

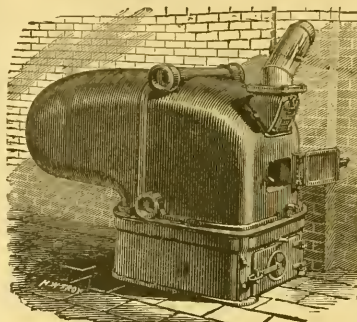
Abel C C & Co.	663	McBride Alex.	661
Adv Rates, etc.	661	McCarthy N F & Co.	657
Andorra Nurseries	663	McFarland J H.	658
Bailor F A.	662	McFarland J H Co.	664
Bancroft Joseph	662	Metowan John	661
Barand W W & Co.	663	Menz & Co.	665
Bay State Hdw Co.	667	Marchant & Co.	662
Bayersdorfer H & Co.	666	May John N.	662
Baylis Henry W.	667	May L L & Co.	660
Beant Geo E.	662	Michel Plant & Bulb Co.	662
Beger H H & Co.	668	Millane Bros.	667
Bird F W & Son	668	Moffatt G L J.	660
Bock Wm A.	660	Moninger Jno C.	668
Brown Jos F & Son.	657	Moon Samuel C.	668
Boston Letter Co.	665	Moore Frank L.	666
Brackridge & Co.	658	Mullen Geo.	665
Brainer & Richter	663	Nahr & Neuber	665
Brist Robert	668	National Fibre Co.	665
Burns & Raynor.	660	National Plant Co.	655
Burpee W Allee & Co.	659	Niles Centre Floral Co.	667
Burrow J G.	660	Oasis Nursery Co.	665
Burton John.	656	Olson M.	660
Cannan R W.	665	Overzierk P.	664
Carmody J D.	665	Page M E Jr.	664
Chandler Geo F.	665	Parry Wm.	664
Chitty H B.	661	Peck & Sutherland.	665
Clark B L.	665	Pelree & Coleman Co.	665
Connelly John J.	665	Pennock T J.	661
Corbett T J & Co.	659	Pennock T M.	660
Crawford M.	658	Pennock Sam I.	661
De Lamater Iron Wks.	658	Peterson A N.	660
Dillon J L.	663	Pittsboro F R Co.	660
Dreer H A.	660	Pittsburg Clay Mfg Co.	660
Dubert W H.	664	Powell W S & Co.	665
Elliot Wm & Sons	659	Randall A L.	665
Ellison Wm.	660	Reed & Keller.	665
Eust F G & Co.	660	Reynard Joseph.	660
Felheim Lyman.	667	Riemann H W.	660
Ferry D M & Co.	664	Rimband Benj.	660
Fuld S B.	660	Roberts D H H.	665
Freeman Lizzie	660	Roehrs Theo.	665
Frost James	660	Roemer Fred.	665
Gardiner J & Co.	667	Rogers Nurseries.	660
Gibson J C.	662	Rolker A & Sons.	660
Gonzalez & Co.	663	Russell Governor	660
Gregory J J H & Son.	660	Russell S J.	665
Hall Asa H.	666	Salter Bros.	665
Hancock Geo	661	Salter John A.	662
Hart James.	667	Sander & Co.	662
Hart Michael A.	667	Saul John.	662
Hartford H E.	666	Schofield D C & Co.	666
Hecht Jos.	668	Schulz Jacob.	665
Hennecke C C.	667	Scully John A.	668
Herr Albert M.	661	Schurr P & Sons.	665
Hews A H & Co.	666	Schmalze W R.	661
Hillinger Bros.	666	Sheridan W F.	667
Hill E G & Co.	662	Schrebt & Wadler.	662
Hillard E.	665	Sipke Doffel & Co.	666
Hitchings & Co.	668	Situations, wants.	664
Hooker H M Co.	666	Smith C A Floral Co.	666
Horn Edw C.	667	Spaulding T H.	667
Horn James.	668	Stahl Wm.	665
Hulsbosch Bros.	660	Stark Bros.	665
Hunt E H.	667	Stott Garden Imp Co.	665
Hunt M A.	665	Stryer J J.	661
Hunter & Parry	667	Sunderburch H L.	666
Jeffords J E & Co.	664	Swayne Edw.	661
Jennings E B.	661	Swayne Wm.	661
Joosten C H.	663	Treker Wm.	665
Kaufmann Ernst & Co.	667	Vaughan J C.	662
Kennett Bros Co.	667	Vicki Sons James	666
Koffmann E.	664	Washburn Andrew.	660
Krick W C.	665	Weeber & Dun.	660
Kroeschell Bros.	667	Weich Bros.	667
Kuehn C A.	666	Wells & Coutan Co.	665
Lampert J J.	666	Whitall Pot Co.	666
Larida Isaac.	661	Wight W P.	668
La Roche & Stahl.	665	Wilks S Mfg Co.	666
Lewis E B.	663	Winter N D.	668
Little W S & Co.	658	Wisconsin Fl.	666
Lockland Lumber Co.	658	Wood Bros.	666
Lombard R T.	661	Zirngelber	666
Long Dan L.	666		

YOUNGSTOWN, OHIO.—E. Hippard arranged the decorations at the recent marriage of Miss Andrews to L. C. Bruce, editor of *Turf, Field and Farm*. The decorations were very elaborate and much admired.

CYPRRESS GREENHOUSE MATERIAL
HOT BED AND VENTILATING SASH
CLEAR
CYPRESS
SASH
BARS
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.



THE "LOGKLAND"

Sash Bars * * *

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates.

LOGKLAND LUMBER CO.

Mention American Florist.



Do You Want
A RELIABLE
SUPPLY OF
WATER

For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,
Conservatory, Lawn, House, Garden,
Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
All of this can be accomplished by using the Improved
RIDER HOT-AIR
OR
ERICSSON PUMPING ENGINE



Catalogue with full particulars sent on application.
DE LAMATER IRON WORKS, 231 CORNHILL ST., NEW YORK, N. Y.
Mention American Florist.

FIRST-CLASS CERTIFICATE OF MERIT.

PERFECT DRAINAGE BENCH TILE

For testimonials, circulars, etc., address

W. P. WIGHT,
UPLAND GREENHOUSES, : : : MADISON, NEW JERSEY



GREENHOUSE HEATING
AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N. Y.

Send for Catalogue.

D. H. ROBERTS,
159 & 161 South 5th Ave., New York.
NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the
Boston Convention of the S. A. F.

FLORAL DESIGNS

The Cut Flower Worker's friend. Fine book
of 166 pages. Send \$3.50 for it, to
HORACE MCFARLAND, Harrisburg, Pa.

